REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

EPA ID: NCD003195963 Site Name: WESTINGHOUSE ELEC METER & LIGHT DIV State ID:

Page 1 of 1

Alias Site Names: WESTINGHOUSE	ELEC METER & LIGHT DIV	
City: RALEIGH	County or Parish: WAKE	State: NC
Refer to Report Dated: 05/14/2001	Report Type: SITE REASSESSMENT 001	
Report Developed by:		•
DECISION:		
X 1. Further Remedial Site Ass because:	essment under CERCLA (Superfund) is not required	
X 1a. Site does not qualify to (No Further Remedial Acti	for further remedial site assessment under CERCLA on Planned - NFRAP)	
1b. Site may qualify for a	ction, but is deferred to:	
2. Further Assessment Neede	ed Under CERCLA:	
2a. Priority: Higher	Lower	
2b. Other: (recommende	d action) NFRAP (No Futher Remedial Action Planned	
DISCUSSION/RATIONALE:		
The site received corrective action closure under the	e State of North Carolina RCRA program. All contamination was removed and	d no pathways exist at the site
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		- 10446421
		1 372
Site Decision Made by: LUIS DORES		
Signature:		Date: 06/13/2001
	v	

EPA Form # 9100-3

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WASTE MANAGEMENT

MICHAEL F. EASLEY, GOVERNOR William G. Ross Jr., SECRETARY WILLIAM L. MEYER, DIRECTOR



May 14, 2001

Ms. Jennifer Wendel NC Site Management Section US EPA Region IV Waste Division 61 Forsyth Street, 11th Floor Atlanta, Georgia 30303



Subject:

Site Re-Assessment Report

Westinghouse Electric Meter and Light

EPA ID: NCD 003 195 963

Raleigh, Wake County, North Carolina

Dear Ms. Wendel:

Westinghouse Electric Meter and Light is located on US 1 North just off the I-440 Beltline in Raleigh, North Carolina (Reference 1). The site's geographic coordinates are 38°48'33.77" north latitude and 78°36'18.97" west longitude (Reference 2).

The Westinghouse facility was built around 1953 and initially used only for assembly of meters until the plating equipment was installed. From 1954 to 1996 the facility manufactured and assembled all types of electrical metering devices for many residential and commercial applications (Ref. 1).

Process wastewaters at the Westinghouse facility were collected in two sewers: a cyanide sewer and an acid/alkali sewer. These sewers consisted of several in-ground rubber-lined concrete tanks. Cyanide wastewaters underwent chlorine oxidation. Acid/alkali wastewaters that contained chromium were treated with sodium bicarbonate to reduce the chromium from Cr+6 to Cr+3. After these treatment steps, the process wastewaters were mixed together and the pH of the final solution was adjusted. The combined stream was then fed to a flocculator and a clarifier, after which it was mixed with cleaning water solution and discharged to the Raleigh POTW. Precipitate from the clarifier was thickened in a filter press, and the final sludge was shipped off site (Ref. 3).

Prior to 1974, plating wastewater sludges were disposed of in an on-site impoundment. After 1974 and before installation of the filter press, plating sludges were fixed with sodium silicate and portland cement in the cement mixer and then stored in two in-ground concrete storage basins prior to shipment for disposal (Ref. 3).

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In July 1984, a site inspection (SI) sampling event was conducted by staff members of the NC Division of Health Services (NCDHS), Solid and Hazardous Waste Management Branch. Sampling included three samples from an on-site intermittent drainage ditch, three source samples, and one subsurface soil sample (Ref. 1).

An on-site intermittent drainage ditch was sampled at three locations during the SI: at the culvert upgradient (001267 and 001268), adjacent to the waste (001269 and 001270), and downgradient of the waste (001475 and 001476). Iron, manganese, and zinc were detected in all of the surface water samples (001267, 001269, and 001475). Chromium, lead, nickel, copper, iron, manganese, and zinc were detected in all three sediment samples (001268, 001270, and 001476). In addition to the above listed contaminants, arsenic (0.49 mg/l) was also detected in the upgradient sediment sample (001268) (Ref. 1). No samples were collected at or downstream of the probable point of entry (PPE) (Ref. 4).

Three source samples were collected on site: one from the sludge in the surface impoundment for metals (001477), one from the sludge in the surface impoundment for volatile organics (001334), and one from a pile in the chem-fixed sludge area (001479). No volatiles were detected in the source sample from the sludge in the surface impoundment (001334). Barium (212 mg/l), cadmium (665 mg/l), chromium (936 mg/l), lead (34 mg/l), nickel (148 mg/l), copper (1,010 mg/l), cyanide (200 mg/l), zinc (2,270 mg/l), iron (3,720 mg/l), and manganese (103 mg/l) were detected in the sludge in the surface impoundment (001477). Arsenic (0.49 mg/l), cadmium (243 mg/l), chromium (767 mg/l), lead (54 mg/l), nickel (495 mg/l), cyanide (260 mg/l), copper (3,248 mg/l), zinc (5,150 mg/l), iron (7,425 mg/l), and manganese (146 mg/l) were detected in the pile in the chem-fixed sludge area (001479) (Ref. 1).

One subsurface soil sample was collected on site from the impoundment below the sludge (001478) at a depth of 6.5 to 7 feet. Barium (45 mg/l), chromium (225 mg/l), lead (10 mg/l), nickel (24.5 mg/l), copper (288 mg/l), iron (38,1000 mg/l), manganese (610 mg/l), and zinc (5.0 mg/l) were detected (Ref. 1), though none of these levels exceeded Federal and State benchmarks for the protection of human health and the environment (Ref. 5).

Based on the results of the SI and the fact that Westinghouse was an active facility, the site was deferred to the State's RCRA program for further action.

In 1984, Westinghouse applied to close the mixer, the two basins, and the drum storage area, and withdrew its Part A application to use the two basins for hazardous waste storage. Closure was certified by William L. Klotz, P.E. on July 18, 1985 and John S. Robinson, General Manager of Westinghouse's Raleigh Meter Division on August 5, 1985 (Ref. 3, Ref. 6, Ref. 7).

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In December 1984, four downgradient groundwater monitoring wells were installed prior to the submittal of the closure plan for the surface impoundment. Initial groundwater sampling collected in December 1984 detected copper (0.14 mg/l), nickel (0.04 mg/l), cadmium (0.03 mg/l), and cyanide (0.10 mg/l) in well #2 (Ref. 8). The level of cadmium exceeded the Federal and State benchmark for the protection of human health and the environment (Ref. 4) and the NC groundwater standard (Ref. 9).

Sampling collected in January 1985 from the four monitoring wells detected copper (0.03 mg/l) and cyanide (0.23 mg/l) in well #2. The level of cyanide exceeded the NC groundwater standard (Ref. 9). By April 1985, cyanide was also detected in well #1 (0.02 mg/l) and well #3 (0.06 mg/l), and well #2 (0.19 mg/l) was still exceeding the NC groundwater standard (Ref. 9). In addition to cyanide, nickel (0.05 mg/l) was detected in well #1 and copper (0.02 mg/l) was detected in well #2 (Ref. 8).

On July 31, 1985, the general manager of Westinghouse informed NCDHS of completed closure of the surface impoundment on site. The unit had been closed and all the sludge from the bottom of the impoundment had been removed (Ref. 3). By April 1986, groundwater sampling in the monitoring wells showed all contaminants below detection limits or below applicable standards, with cyanide (0.14 mg/l) detected in well #2 and copper 0.12 mg/l) in well #4 (Ref. 8).

In the latter part of 1987, Westinghouse experienced a spill of an unknown quantity of perchloroethylene. When the release was discovered, the material was contained and the saturated soil was removed in a 5' x 10' area to a depth of $1\frac{1}{2}$ - 2 feet (Ref. 10). The area was inspected by the State, then backfilled. The area where the contaminated material was stockpiled was also inspected by the State following the removal to a secure landfill (Ref. 11).

By April 1996, the Westinghouse facility had ceased all manufacturing operations (Ref. 12). Currently the facility is owned by Parker-Lincoln, Inc. and is leased by the NC Department of Environment and Natural Resources to house various division offices (Ref. 13).

There are no residences, day care centers, or schools located on or within 200 feet of any portion of the former source areas. There are between 400 and 500 workers on the property in the original warehouse. However, based on previous removal information, all source and contaminated soils were removed from the site.

There are no groundwater users in the immediate area. Water is supplied to businesses and homes by the City of Raleigh's municipal water system.

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Development in the area of the site has resulted in the elimination of the drainage ditch network previously in place for the property. All overland flow from the site enters the City of Raleigh's stormwater runoff system. The probable point of entry (PPE) for the site is approximately 2500 feet southwest of the site into a qualifying wetland. However, due to the large commercial activity and development in the area, it is not possible to show attribution to the site.

Based on a review of available file information and previous investigations of Westinghouse Elec. Meter & Light, the North Carolina Superfund Section recommends that the site be assigned a disposition of "No Further Action (NFA)" under CERCLA.

Please feel free to contact me at (919) 733-2801 ext. 317 or by e-mail at melanie.bryson@ncmail.net if you have any questions or comments.

Sincerely,

Melanie Bryson, EI Environmental Engineer

NC Superfund Section

Dan LaMontagne, Head

Site Evaluation and Removal Branch

NC Superfund Section

CC: Scott Ross - File

CC: (Letter Only)

Charlotte Jesneck

Site Inspection Report

for

Westinghouse Electric Meter and Light Division US #1 North Raleigh, N.C.

NCD 003195963

Ъy

Frank E. Moore Geologist, 3012

August 28, 1984

Summary

Westinghouse, located off the Beltline on US #1 North in Raleigh, N.C., manufactures all types of electric metering devices. They have been at this location—manufacturing and assembling meters—since 1954. This is a well established area with commercial/industrial and residential sections all believed to be serviced with city water and sewer.

Westinghouse notified us, through a CERCLA 103C, for the disposal of treated electroplating sludge on-site in a diked impoundment. From information received from the Company, we have concluded that on-site disposal took place from about 1954 until 1973. From 1974 until 1980, the metal plating sludges were generally drumed and sent to Wake County landfills nearby. The majority of the sludge disposed of during this time was "fixed" with sodium silicate and cement. It is estimated that 2,000 cubic yards of fixed and unfixed metal plating sludges remain on the site today.

A medium priority for site inspection was recommended in the PA and the site inspection was scheduled for July 20, 1984. The objectives of the SI were to confirm the presence of a hazardous waste disposal area and to sample for potential off-site migration routes. Ten (10) samples were taken at the site including sludge, soil, surface water and sediment samples. Based on these samples, we concluded there was a hazardous waste disposal area. There didn't appear to be any significant impact on the environment (soil, groundwater or surface water) and it presents no public health risks at this time.

Depending upon the outcome of discussions with the RCRA program, this site may be addressed as part of the RCRA regulations. However, if the site remains in CERCLA, it would be easy enough to initiate a clean-up of the site. This site will need to be addressed in the future and may deserve a low priority for follow-up at this time.

Location

The exact location for Westinghouse Electric Meter and Light Division metal plating sludge disposal area is as follows:

Westinghouse Electric Box 9533 US #1 North Raleigh, N.C. 27611 Wake County Lat 35° 49' 30"

Long 78° 36' 30"

The plant occupies the east corner of the intersection of US #1 North and the Raleigh Beltline.

The waste water treatment facility and disposal area is located just off the SW corner of the main plant building.

The diked sludge disposal impoundment was overgrown with Kudzu at the time of our site inspection. Attached is a USGS 7.5° Quad map showing the location of the facility and the surrounding area. (Attachment A)

Site Layout

Entrance to the facility is from the north side of the property, off of US #1 North. The main building (office and manufacturing facility) sits parallel to US #1 in a NE to SW orientation. The Raleigh Beltline runs parallel to the western property line of Westinghouse. The main railroad lines border the property on the southern side. The entire property is reported as covering some 100 acres which affords Westinghouse generous buff zones on all sides of the facility.

The waste water treatment plant and sludge processing and disposal areas are just off the SW corner of the main building. The area drains southward towards the Beltline and railroad tracks. The drainage receives some surface water from the facility area before exiting a culvert near the waste water treatment plant. Historical information indicates that the drainage was formed as an intermittent stream (unnamed) and wet weather spring. (Est. flow 1 gal/min.)

Below and to the west of the waste water treatment facility is the area used for past metal plating sludge disposal. Originally, sludge was treated and pumped into about a 100' diked impoundment. Later a cement mixer was added with sludge set-up areas (concrete areas) to facilitate their chem-fix operation. The sludge impoundment is easily recognized by the overgrowth of Kudzu vines covering the impoundment.

The surrounding area is heavily commercialized with some urban residential areas nearby. The entire area, however, is reportedly serviced by city sewer and water. (Sketch map of Impoundment Area - Attachment B)

Ownership and Site Use History

Westinghouse Electric Corporation has been the sole owner and operator of the facility of US #1 North in Raleigh, N.C., according to the Company.

The facility was built around 1953 and for the first year or so was used only for assembly of meters until the plating equipment was installed. From 1954 to present the facility has manufactured and assembled all types of electrical metering devices for many residential and commercial applications. Plating sludges were disposed of on site from 1954 until 1973. In 1973 modifications in the sludge treatment process were completed and the treated sludge was drumed and landfilled in Wake County. The Company has estimated that between 40 to 60 drums per month were landfilled off site between mid 1974 and the end of 1975.

Other potential hazardous wastes including solvents from degreasing still bottoms, paint sludges, and precipitates from plating tanks were also believed to have been drumed and disposed of off site in the County landfill prior to 1976.

From 1976 until 1980, plating sludges were chem-fixed, drumed and disposed of off site in a landfill. Other solvent and paint residues were shipped to various recyclers and disposers and not landfilled.

Permit and Regulatory History

According to our information Westinghouse has a N.C. Permit #3637 for Air Pollution Abatement Facilities and/or Emission Sources. They also have a SPCC plan and are a RCRA generator facility.

In 1975 the N.C. Solid Waste Program requested that Westinghouse stop disposing of drumed plating sludge in the landfill. A "chem-fixed" process was incorporated into the treatment facility and again the fixed sludge was allowed by the State to be landfilled. No fines or penalties were assessed.

In 1980, RCRA regulations mandated that proper disposal of plating sludges be to a secure landfill. Westinghouse tried, unsuccessfully, for about two years to have their waste delisted as non-hazardous. However, due to higher than allowed Cyanide levels, the delisting was denied.

All plating wastes are manifested to SCA at this time under RCRA. Other solvent/paint wastes are also properly disposed of under RCRA.

Remedial Actions

No remedial actions have taken place at Westinghouse due to the disposal of their plating sludges in the impoundment. No complaints or environmental problems have ever been noted due to this disposal on site.

Trip Report

Mr. Dave Daugherty, Senior Engineer at the Westinghouse facility, was the site contact before, during and after the site inspection on July 20, 198. Mr. Daugherty also provided information requested for completing the PA report.

On the morning of July 20, 198%, the following participated in the site inspection at Westinghouse:

Frank Moore	Geologist	DHR, 3012
Len Bramble	Engineer	DHR, 3012
Lee Crosby	Chemist	DHR, 3012
Dave Daugherty	Engineer	Westinghouse, Raleigh, NC
Paul Jack	Engineer	Westinghouse, Pittsburg, PA

Permission for the SI was granted by Mr. Daugherty who also wished to receive splits of all samples taken during the SI. Mr. Jack was acting as an observer for Westinghouæ and took notes during the inspection. Photographs were planned during the SI but due to problems with the film none are available. (I didn't load the camera correctly)

Sampling strategy was discussed and sampling began about 0930 hours. Sampling was done in accordance with recognized EPA protocol and transported to the lab using chain-of-custody procedures. A total of ten (10) samples were taken:

Map #	Sample #	Description
#1	001267	At Culvert, up-gradient drainage water, metals
#2	001268	At Culvert, up-gradient drainage sediment, metals
#3	001269	Adjacent to waste, drainage water, metals
#4	001270	Adjacent to waste, drainage sediment, metals
# 5	001475	Down-gradient, drainage water, metals
#6	001476	Down-gradient, drainage sediment, metals
#7	001477	Impoundment, sludge composite 0-6', metals
#8	001334	Impoundment, sludge composite 0-6', organics
#9	001478	Impoundment, soil below sludge, metals
#10	001479	Chem-fixed sludge area, metal

The results of these samples are attached. The drainage water and sediment samples do not indicate any significant migration of the waste has occurred. The pieces of chem-fixed material in the drainage may have influenced the ph or the water by raising it slightly from 5.9 up-stream to 6.4 down-stream. (pH from field measurements)

The waste samples did show high total metal levels but none of the metals showed significant concentrations when extracted. No organic solvents were detected in the sludge sample from the impoundment. Cyanide values were high in the sludge.

The soil sample taken from below the sludge in the impoundment also showed the presence of metals in minor concentrations. It should also be noted that even after a very rainy spring and summer the soil was very dry. The sludge was saturated with water, but appeared to almost form a cap over the soil. There didn't appear to be a great deal of vertical movement of water. A background soil sample would have to be taken before a complete comparison of the soil's metal levels could be compared.

Photographs were planned for the SI, but because of film problems no pictures are available from the SI.

Environmental Setting

Topographic Map Attached

The disposal area is off on the SW corner of the facility. The waste area is overgrown with Kudzu and through the years have built up a 4" layer of organic humus material. Some small "critters" were observed in the humus layer. The area around the impoundment is well maintained (grass cut regularly) and a security fence is about 40'-50' from the impoundment on the south and east sides. The drainage, which runs along north to south just to the east of the disposal area, reportedly receives run-off from the facility before exiting a culvert at the waste water treatment plant. (Sampling point #1 and #2) This drainage was running at an estimated 1 gallon/minute and "dried-up" approximately 400' - 500" downstream from the impoundment, still on Westinghouse property. The area outside of the fence is forested with mixed pines and hardwoods. As before, US #1 and the Raleigh Beltline borders the facility on the North and West. The unnamed drainage empties into Crabtree Creek approximately .5 miles away.

The land use in the immediate area surrounding the site would be considered urban commercial/industrial. The topo map does show several residential subdivisions approximately 1/2 mile away. This entire area is reportedly served by city water and sewer.

The unlined impoundment lies in weathered mica and hornblende gneiss. The saprolite clayey soils are generally mapped as firm clayey soils on felsic rocks and classified as Cecil-Appling-Pacolet soils. Bedrock would probably be fairly shallow in this area.

The site around the impoundment slopes to the south, same as the drainage flow.

Wo additional substitute information was available at the time of this writing, but Westinghousemight be able to furnish some additional information from foundation studies used in the construction of the plant buildings. No wells are reported in the area, so groundwater studies were also not available.

Based on the available information, it is the opinion of the author that this disposal has not caused any significant impact on the environment surrounding the impoundment. Also, there doesn't appear to be a health risk associated with the disposal area as it exists at this time. A low priority for follow-up work may be recommended for this site.

Waste Types and Quantities

Mr. Dave Daugherty of Westinghouse reports that original estimates of the waste on site to be high—3700 cubic yards. Recent measurements indicate about 950 cubic yards of unfixed sludge present in the impoundment and about the same volume remains of the chem-fixed sludge and contaminated soil from grading associated with the fixed operations. The total volume of metal plating sludge wastes is estimated to be about 2000 cubic yards of material.

Additional waste was disposed of off site and is still being investigated.

References

- Raleigh East, N.C. USGS 7.5' Quad Map 1968 Photo Revised 1973
- Impoundment Sketch Map with Sampling Locations
- Copy of Field Notes
- Copy of Westinghouse Letter August 15, 1984
 Daugherty to Moore
- Lab Results with Chain-of-Custody Form
- Consent for Access to Property Form
- Receipt for Samples Form
- SI Form 2070-13 with Instructions
- Information in Delisting Petition from RCRA Files

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION					
	02 SITE NUMBER				
NC	D003195963				

		PART 1 - SIT	E LOCATION A	ND INSF	ECTION INFO	RMATION LINE	10003133303
II. SITE NAME AND LO	CATION						
01 SITE NAME (Legal, common.	or descriptiv	e name of site)		02 ST	REET, ROUTE NO., O	R SPECIFIC LOCATION IDENTIFIE	ER
Westinghous	Westinghouse Electric Met				. US #	1 N	
03 CITY		ectric net	<u>CI HABUU</u>	04 ST	TE 05 ZIP CODE	06 COUNTY	07COUNTY 08 CONG CODE DIST
Raleigh				NC	27603	Wake	092 04
09 COORDINATES CCN 6-3-87 LONGITUDE 00			10 TYPE OF OWNER (X A. PRIVAT F. OTHER	TE 🗆 B. I		C. STATE D. COU	
III. INSPECTION INFOR							
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05 CHIEF INSPECTOR		(/	Vame of firm) 06 TITLE			(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
Frank E. Mod	ore		Geol	ogist	<u>.</u>	DHR	919, 733-217
09 OTHER INSPECTORS			10 TITLE			11 ORGANIZATION	12 TELEPHONE NO.
Len Bramble			Engi	neer	·	DHR	919 ⁾ 733-217
Lee Crosby			Chem	ist	·	DHR	919)733-21
							()
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13 SITE REPRESENTATIVES II	NTERVIEW	'ED	14 TITLE		15ADDRESS		16 TELEPHONE NO
Dave Daugher	ty	•••	SR. Eng	•	Westingh	ouse US #1 N	919)834-527
Paul Jack			Proj. E	ng.	Raleigh,	N. C.	4121255-363
W. A. Peeble	s s		Plt. Mg	r			919 834 - 527
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17 ACCESS GAINED BY	18 TIME	OF INSPECTION	19 WEATHER CO	NDITIONS	.		
(Check one) DERMISSION WARRANT	0	900	Sunny,	Clea	ır, Light	Breeze	
IV. INFORMATION AVA	LABLE	FROM	1				
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Dave Daveter	- +	•	Sr Fng	_ τ.	lestingho		919 1834-5271
Dave Daugher		SPECTION FORM	05 AGENCY		RGANIZATION	07 TELEPHONE NO.	08 DATE
Frank E. Moo	re		DHR	5	S & HW	919/733-23	1.78 8 27,84

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01.STATE | 02 SITE NUMBER | NC | D 0 0 3 1 9 5 9 6 3

II. WASTES	TATES, QUANTITIES, A	ND CHARACTER!	ISTICS				
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X A. SOLID	Li E. SLUARY	must be i	independent)	A. TOXIC	D E. SOLUE		
☐ B. POWDE	ER, FINES (1) F, LIQUID SE (1) G, GAS	TONS -	2,000	D. PERSIS	DSIVE U.F. INFEC PACTIVE Q.G. FLAMI STENT U.H. IGNITA	MABLE X K. REACTI	IVE PATIBLE
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER NC D003195963

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS	6-		
01 🗴 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	₩ POTENTIAL	□ ALLEGED
Based on sample results it wou time. However, there doesn't this disposal.			
	7 00 07	·	_ _ -
01 🔄 B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02XI OBSERVED (DATE: 7-20-84) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
Pieces of "Chem-fixed" sludge were vi	sible in the drainage $(8"$ -	· 10" and sma	ller chunks)
However, drainage water samples up-gr	adient and down-gradient we	re comparabl	e, O.K.
01 ☐ C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
N/A			
	•		
01 □ D. FIRE/EXPLOSIVE CONDITIONS	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		- ACTIVED
N/A			
Y.			i .
01 LXE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	☐ ALLEGED
Not likely – although the waste is in	the "open". Area is fence	d and site ha	s security.
01 (Acres)	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	₩ POTENTIAL	□ ALLEGED
	SU	sceptible	
Just the soil in contact with the s contamination.	ludge pile appears to be .	1 to	possible
Containination.		·	
01 [] G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	C) ALLEGED
N/A	•		
01 ☐ H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
None reported -	$(\mathbf{y}_{i}) = (\mathbf{y}_{i}^{(i)}, \mathbf{y}_{i}^{(i)}, \mathbf{y}_{i}^{(i)}$		
01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL.	□ ALLEGED
		·	•
N/A			
·			

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION OF HA	AZARDOUS CONDITIONS A	AND INCIDENTS	110 100	03193963
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)				
01 (XJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
None observed				
01 [XK. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
None observed				
01 🗇 L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
N/A				
01 CAM: UNSTABLE CONTAINMENT OF WASTES	02X OBSERVED (DATE:	-20-84)	☐ POTENTIAL	☐ ALLEGED
(Spits/Runoil/Standing liquids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION			
Sludge is in open diked area. App	pears that run-off	of surface	e water has	trans-
PORTED SOME STUDGE 11 IN DAMAGE TO OFFSITE PROPERTY 14 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
•			•	
N/A		•		
01 🗇 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
N/A				
11 C P. ILLEGAL/UNAUTHORIZED DUMPING 14 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	(POTENTIAL	□ ALLEGED
Done with the knowledge of the Sta	ate			
5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS	······································		
·		•		
None				
. TOTAL POPULATION POTENTIALLY AFFECTED:	Ø		. <u> </u>	 .
. COMMENTS	· <u>·</u>			
Past disposals off-site in landfil Rowlands landfill - Wake County	lls will create si	tes in Knig	ghtdale lan	dfill and
SOURCES OF INFORMATION (Cre specific references, e.g., state (465,	semple analysis, reports;			
			· · · · · · · · · · · · · · · · · · ·	
SI on 7-20-84 Westinghouse Letter Daugherty to N				
Branch - Solid Waste Files 1975-	-0			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

Į	I. IDENI	IFICATION
	01 STATE	02 SITE NUMBER
ļ	NC	D003195963

WEI / 1	PART 4 - PERMI	T AND DE	SCRIP	TIVE INFORMAT	ION	[NC D003133362
II. PERMIT INFORMATION						
O1 TYPE OF PERMIT ISSUED (Chack all that apply)	02 PERMIT NUMBER	03 DATE	SSUED	04 EXPIRATION DATE	05 COMMENTS	
A. NPDES						
□ B. UIC						
C. AIR					NRCO	· DEM
⊠ D. RCRA					Generato	or, Treater, Storer
E. RCRA INTERIM STATUS						
F. SPCC PLAN						
☐ G. STATE (Specify)				-		
☐ H. LOCAL (Specify)						
A. OTHER (Specify)					SPCC P	/AN
□ J. NONE						
III, SITE DESCRIPTION						
01 STORAGE/DISPOSAL (Check all Inat apply)	02 AMOUNT 03 UNIT (OF MEASURE	04 TR	EATMENT (Check all that at	oply)	05 OTHER
XD A. SURFACE IMPOUNDMENT XD B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND F. LANDFILL G. LANDFARM H. OPEN DUMP II. OTHER (Specify)	2,000 Cu included in abo	ove	□ B. □ C. □ C. □ E. □ F. □ G. □ H.	INCENERATION UNDERGROUND INJE CHEMICAL/PHYSICA BIOLOGICAL WASTE OIL PROCESS SOLVENT RECOVERY OTHER RECYCLING/I	L SING / RECOVERY	A. BUILDINGS ON SITE OF AREA OF SITE (Acres)
The volume includes c sludge that when into facility but only abo	a diked impodite	ament.	WES	LI.Ignouse C	wits marry	acres at this
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check one)						
C A. ADEQUATE, SECURE	X 8. MODERATE	☐ C. IN	ADEQU	ATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS.	BARRIERS, ETC.					
The original impoundment the chem-fix area, surther drainage. The im	rface run-off ha	is tran				

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS FENCE

The area is Λ off and is off to one side of the facility. The area is open with kudzu covering the waste. Only trespassers would be affected.

VI. SOURCES OF INFORMATION (Cité specific references, e.g. state tree, sample analysis, reports)

RCRA Branch Files

Westinghouse Letter 8-15-84, Daugherty to Moore

SI visit 7-20-84

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE 01 STATE 02 SITE NUMBER SITE INSPECTION REPORT. b003195963 PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA II. DRINKING WATER SUPPLY 01 TYPE OF DRINKING SUPPLY 02 STATUS . 03 DISTANCE TO SITE (Check as applicable) MONITORED SURFACE WELL ENDANGERED AFFECTED C. 🗆 COMMUNITY A. 🕸 8 0 B. 🗀 A [] (mi) NON-COMMUNITY C. 🗆 D. 🗆 E. 🗆 F. C \cap (mi) III. GROUNDWATER 01 GROUNDWATER USE IN VICINITY (Check one) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION ☐ D. NOT USED, UNUSEABLE (Limited other sources available) B. DRINKING
 (Other sources evallable) A. ONLY SOURCE FOR DRINKING COMMERCIAL, INDUSTRIAL, IRRIGATION 02 POPULATION SERVED BY GROUND WATER 03 DISTANCE TO NEAREST DRINKING WATER WELL. 04 DEPTH TO GROUNDWATER 05 DIRECTION OF GROUNDWATER FLOW 06 DEPTH TO AQUIFER OF CONCERN 07 POTENTIAL YIELD OF AQUIFER 08 SOLE SOURCE AQUIFER □ YES □ NO 09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings) 11 DISCHARGE AREA 10 RECHARGE AREA ☐ YES COMMENTS ☐ YES COMMENTS □ NO □ NO IV. SURFACE WATER 01 SURFACE WATER USE (Check one) ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES A. RESERVOIR, RECREATION C. COMMERCIAL, INDUSTRIAL D. NOT CURRENTLY USED DRINKING WATER SOURCE 02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER AFFECTED DISTANCE TO SITE NAME: Unnamed drainage to Crabtree Creek (mi) . 🗆 (mi) (mi) V. DEMOGRAPHIC AND PROPERTY INFORMATION 02 DISTANCE TO NEAREST POPULATION 01 TOTAL POPULATION WITHIN TWO (2) MILES OF SITE THREE (3) MILES OF SITE ONE (1) MILE OF SITE Hundreds B Thousands On-Site (mi) NO, OF PERSONS NO. OF PERSONS NO. OF PERSONS 04 DISTANCE TO NEAREST OFF-SITE BUILDING 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE Hundreds 05 POPULATION WITHIN VICINITY OF SITE (Provide netrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

This site is at the intersection on two major roadways in Raleigh, US #1 and the Beltline around downtown Raleigh. Along the highways it is commercialized and several subdivisions are within 1/2 mile of the site. Urban commercial - urban residential.

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
O1 STATE 02 SITE NUMBER
NC D003195963

		- WATEN, DEMOGRATION	O, AND ENTINO		
VI. ENVIRONMENTAL INFORMA	ATION				
01 PERMEABILITY OF UNSATURATED Z □ A. 10-6 - 10-	ONE (Check only	"EST. Saprolite O 8 10-4 - 10-6 cm/sec O	Clays (red) C.10-4-10-3 cm/s	sec 🗆 D. GREATER THAN	I 10 ^{−3} cm/sec
02 PERMEABILITY OF BEDROCK (Check	one)				· · · · · · · · · · · · · · · · · · ·
A. IMPERN (Less than	MEABLE 10 ⁻⁶ cm/sec)	☐ B. RELATIVELY IMPERMEABL (10 ⁻⁴ - 10 ⁻⁶ cm/sec)	E C. RELATIVELY		Y PERMEABLE er than 10 ⁻² cm/sec)
03 DEPTH TO BEDROCK	04 DEPTH O	F CONTAMINATED SOIL ZONE	05 SOIL pH		
(π)		<u>Est5-1 (ft)</u>			
06 NET PRECIPITATION	07 ONE YEA	R 24 HOUR RAINFALL	08 SLOPE	DIRECTION OF SITE SLOPE	. TERRAIN AVERAGE SLOPE
4 <u>5"</u> (in)	<u>4''</u>	- 6 ¹¹ (in)	SITE SLOPE 2-3 %	S.C.L. H	1 - 2 %
09 FLOOD POTENTIAL		10			<u> </u>
SITE IS INYEAR FLO	ODPLAIN	☐ SITE IS ON BARRIE	ER ISLAND, COASTAL	, HIGH HAZARD AREA, RIVE	RINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minim	um)	- · · . · · · · - · · · · · · · ·	12 DISTANCE TO CRITIC	CAL HABITAT (of endangered speci	14)
ESTUARINE		OTHER	·		(mi)
A (mi)	В	(mi)	ENDANGERE	O SPECIES:	
13 LAND USE IN VICINITY.					
DISTANCE TO: COMMERCIAL/INDUSTR	IAL	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIFI		AGRICULT PRIME AG LAND	URAL LANDS AG LAND
A(mi)		в5	(ml)	C (mi)	D(mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The disposal area is off on the SW corner of the facility. The waste area is overgrown with kudzu. The area around the disposal area is well maintained (grass cut
regularly) and a security fence is near (40') the impoundment on the south and east
sides. A drainage area, which does receive run-off from the facility, runs along
just to the east of the impoundment (50'). The drainage was running at an estimated
1 gal/min. and "dried-up" approximately 400' - 500' down stream from the impoundment,
still on Westinghouse property. The area outside of the fence is forested in mixed
pines and hardwoods. As before, US #1 and the Beltline boarder the property on the

VII. SOURCES OF INFORMATION (Cité specific references, e.g., state files, semple analysis, reports)

USGS 7.5' Quad - Raleigh East, N. C. Photo Revised 1973 SI visit 7-20-84 N.C. infor Atlas

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POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION					
01 STATE	02 SITE NUMBER				
NC	m003195963				

WEFA		PART 6 - SAMPLE AND FIELD INFORMATION NC D003195963						
II. SAMPLES TAKEN								
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE				
GROUNDWATER								
SURFACE WATER		3	N.C. Health Services Lab - Raleigh, N.	C. 4-5 weeks				
WASTE		3	Bath Bldg.					
AIR	·		all rec'd by 8-22-84	4				
RUNOFF				·				
SPILL	-							
SOIL		1						
VEGETATION								
OTHER Sedime	ent 🖺	3						
III. FIELD MEASUREN	MENTS TAI	KEN						
OI TYPE		02 COMMENTS						
pH, Cord., Te	emp.	Surface wate	er measurements - Up-gradient-adjacent-do	wn-gradient				
		of waste are	ea along drainage next to impoundment. The	waste was augere				
		through to c	determine the approximate depth = approx	. 6 feet				
Waste area measured and estimated at 2,000 cu vd by Westinghouse.								
		waste area u	leasures and estimated at 2, shows it you my	west Inghouse.				
IV. PHOTOGRAPHS A	ND MAPS							
01 TYPE GROUND GAERIAL			02 IN CUSTODY OF <u>Camera Problems - No photos o</u> (Name of organization of widividual)	n ST				
C3 MAPS 0 AT YES NO	YES NC 3012 Office Sketch Mans							
V. OTHER FIELD DAT	A COLLEC	TED (Provide narrative des	cnatron)					
				= = 				

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state ides, sample analysis, reports)

SI visit 7-20-84

Lab results

Westinghouse Letter 8-15-84 Daugherty to Moore

SEPA		SITE INSP	ZARDOUS WASTE SITE ECTION REPORT NER INFORMATION	1 1	ICATION 2 SITE NUMBER 003195963	
II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)			
01 NAME		02 D+B NUMBER	OB NAME		09 D+B NUMBER	
Westinghouse Company			Westinghouse Electi	ric Co.]	
D3 STREET ADDRESS (P. O. Box, AFD #, #IC.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD # . etc.	1	11 SIC CODE	
US #1 North		3545	Gateway Center - St	canuiv Stra	e t	
05 CITY	06 STATE	07 ZIP CODE	Gateway Center - St	13 STATE	14 ZIP CODE	
Raleigh	NC	27603	Pittsburgh	PA	15222	
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P. O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #. etc.	J	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER	OB NAME		09 D+8 NUMBER	
03 STREET ADDRESS (P. O. Box, RFD #. BIC.)		04 SIC CODE	10 STREET AODRESS (P.O. Box, RFD #, etc.	J	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
01 NAME	l	02 O+B NUMBER	08 NAME		09 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFC P. etc.)		04 SIC CODE	10 STREET ADDRESS (P. O. Box, AFD . etc.	,	11 SIC CODE	
05 CITY	. 06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
III. PREVIOUS OWNER(S) (List most recent	(first)	<u>L</u>	IV. REALTY OWNER(S) (If approache: list most recent first)			
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P. O. Box, RFD #, etc.	.)	04 SIC CODE	
05 CITY	OSSTATE	07 ZIP CODE	105 CITY	06 STATE	07 ZIP CODE	
D1 NAME		02 D+B NUMBER	01 NAME		02 D+8 NUMBER	
D3 STREET ADDRESS (P.O. Box, RFD P. etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD €, etc.)	04 SIC CODE	
D5 CITY	OB STATE	07 ZIP CODE	05 CITY	08 STATE	07 ZIP CODE	
O1 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER	
U I ITAUNE		OF DISCUSSION OF THE PROPERTY	10 · 11/11/10		~~ ~ · ~ inomber	

V. SOURCES OF INFORMATION (Cite apacriic references, e.g., state filez, sample analysis, reports)

04 SIC CODE

06 STATE 07 ZIP CODE

03 STREET ADDRESS (P.O. Box. RFD #, etc.)

04 SIC CODE

08 STATE 07 ZIP CODE

RCRA Part "A" .

05CITY

03 STREET ADDRESS (P.O. Box, RFQ . . etc.)

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	I. IDENTIFICATION					
i	01 STATE	02 SITE NUMBER				
	NC	D003195963				

			PART 8 - OPERA	TOR INFORMATION	L_NC_ID	003195963
II. CURRENT OPERAT	OR (Provide & different from on	vner)		OPERATOR'S PARENT COMP	ANY (II applicable)	
01 NAME			2 D+B NUMBER	10 NAME		11 D+8 NUMBER
SAME					1	
03 STREET ADDRESS (P.O. I	3ox, RFD Ø, etc.}		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, e	(c.)	13 SIC CODE
05 CITY	. 06	STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER					
III. PREVIOUS OPERA	TOR(S) (List most recent first; p	provide only	f different from owner)	PREVIOUS OPERATORS' PAR	ENT COMPANIES (# 6	topicable)
01 NAME		C	2 D+B NUMBER	10 NAME		11 D+6 NUMBER
03 STREET ADDRESS (P.O. E	3ox, RFO €, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, a	ntc.)	13 SIC CODE
05 CITY	1	STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DUR	RING THIS	PERIOD			· · · · · · · · · · · · · · · · · · ·
01 NAME		0	2 D+B NUMBER	10 NAME		1 T D+8 NUMBER
03 STREET ADDRESS (P.O. 84	ox, RFD €, €tc.}		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, et	(c.)	13 SIC CODE
05 CITY	06	STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DUR	RING THIS	PERIOD			
01 NAME	1	0	2 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. 80	31, RFO #, 6(C.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, #1	Ic.)	13 SIC CODE
05 CITY	08	STATE	7 ZIP CODE	14 CITY	15 STATE 1	8 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DUR	RING THIS	PERIOD			
IV. SOURCES OF INFO)RMATION (Che specific reli	erencas, e.g	, state lijes, sample analysi	s, reports)		·
					· ——-	
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	POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICAT O1 STATE O2 SITE						
SEPA	SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION OUTSING DESCRIPTION NO. 10151476 D.						
II. ON-SITE GENERATOR							
O1 NAME		02 5	+9 NUMBER				
Westinghouse		<u> </u>	· · · · · ·	·			
O3 STREET ADDRESS (P O. Box, RFD . etc.)			04 SIC CODE				
05 CITY	OB STATE	07.7		_			•
	JOS STATE	0, 2	IF CODE				
III. OFF-SITE GENERATOR(S)		<u> </u>					
O1 NAME	·	02 D	+B NUMBER	01 NAME		02 D	+ B NUMBER
N/A							
03 STREET ADDRESS (P.O. Box, RFD €, €(c.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05 CITY	06 STATE	07 Z	IP CODE	05 CITY	08 STATE	07 ZI	P CODE
O1 NAME		02 D	+8 NUMBER	O1 NAME		02 D	+ B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #. etc.)		J	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		-	04 SIC CODE
05 CITY	06 STATE	07 Z	IP CODE	05 CITY	06 STATE	07 ZI	P CODE
IV. TRANSPORTER(S)		-				-	···
01 NAME		02 D	+B NUMBER	01 NAME		02 D	+ B NUMBER
03 STREET ADDRESS (P.O. Box. RFD P. etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD *, etc.)			04 SIC CODE
05 CITY	06 STATE	07 Z	PCODE	05 CITY	08 STATE	07 Zı	P CODE
01 NAME		02 D	+ B NUMBER	01 NAME		02 D	+ B NUMBER
03 STREET ADDRESS (P.O. Box, RFD *, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)			04 SIC CODE
05 CITY	06 STATE	07 Z	P CODE	05 CITY	OB STATE	07 ZI	P CODE
V. SOURCES OF INFORMATION (Cito spe	cilic references,	e.g., sis	ite Illes, sample analysis	i, reports)		<u> </u>	
			<u> </u>	 			
				•			
			•				
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PA FORM 2070-13 (7-81)							

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POTENTIAL HAZARDOUS WASTE SITE

i. IDEN	TIFICATION
01 STATE	02 SITE NUMBER
NC 1	1003195963

WEPA	SITE INSPE PART 10 - PAST R				NC 1000319	
II. PAST RESPONSE ACTIVITIES			,			
01 □ A. WATER SUPPLY CLOSED 04 DESCRIPTION	02	DATE		03 AGENCY		
01 D B. TEMPORARY WATER SUPPLY PROVIDED TO THE	DED 02	DATE		03 AGENCY		
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED TO THE CONTROL OF THE CONT	DED 92	DATE		03 AGENCY		
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02	DATE		03 AGENCY		
01 () E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION						
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION						
01XXG WASTE DISPOSED ELSEWHERE 04 DESCRIPTION Mid 1974 to en Knightdale landfill. May 19	nd of 1975 - p	lating	sludge drum	ed and	disposed in	
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02	DATE		03 AGENCY	III ROWLANDS	Tandilii
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02	DATE		03 AGENCY		
01 D J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02	DATE		03 AGENCY		· ·
01 K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02	DATE		03 AGENCY		
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02	DATE		03 AGENCY		
01 □ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02	DATE		O3 AGENCY		
01 D N. CUTOFF WALLS 04 DESCRIPTION	021	DATE		O3 AGENCY		
01 O. EMERGENCY DIKING/SURFACE WATER O4 DESCRIPTION	R DIVERSION 02 I	DATE	(3 AGENCY		
01 D P. CUTOFF TRENCHES/SUMP 64 DESCRIPTION	02	DATE	(3 AGENCY		
01 O. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02.0	DATE		3 AGENCY		

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION				
01 STATE	02 SITE NUMBER			
NC	D00319596			

II PAST RESPONSE ACTIVITIES (Continued)			
01 D R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DV. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D W. GAS CONTROL 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 ☐ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DY, LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	,	
01 Z. AREA EVACUATED C4 DESCRIPTION	O2 DATE		_
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY	_
01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY	

III. SOURCES OF INFORMATION (Cite specific references, e.g., state tites, sample enalysis, reports)

Westinghouse Letters 12--22--75 H Matthews to Strickland 8--15--84 Daugherty to Moore



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D003195963

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES □ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

In 1975 the State's Solid Waste Program notified Westinghouse that they could not dispose of their plating sludge in the Knightdale landfill. The State then worked with Westinghouse in developing a chem-fixed method with cement.

The Chem-fixed sludge was then disposed of in the Rowlands landfill.

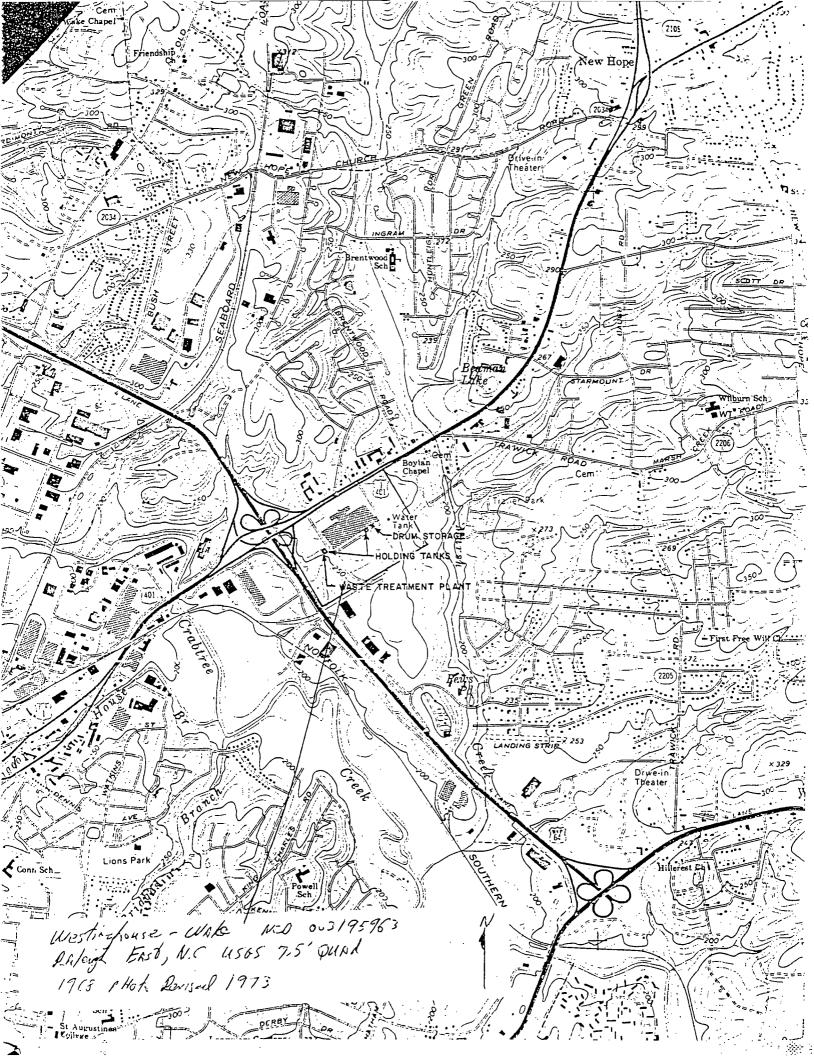
This disposal was stopped when RCRA started.

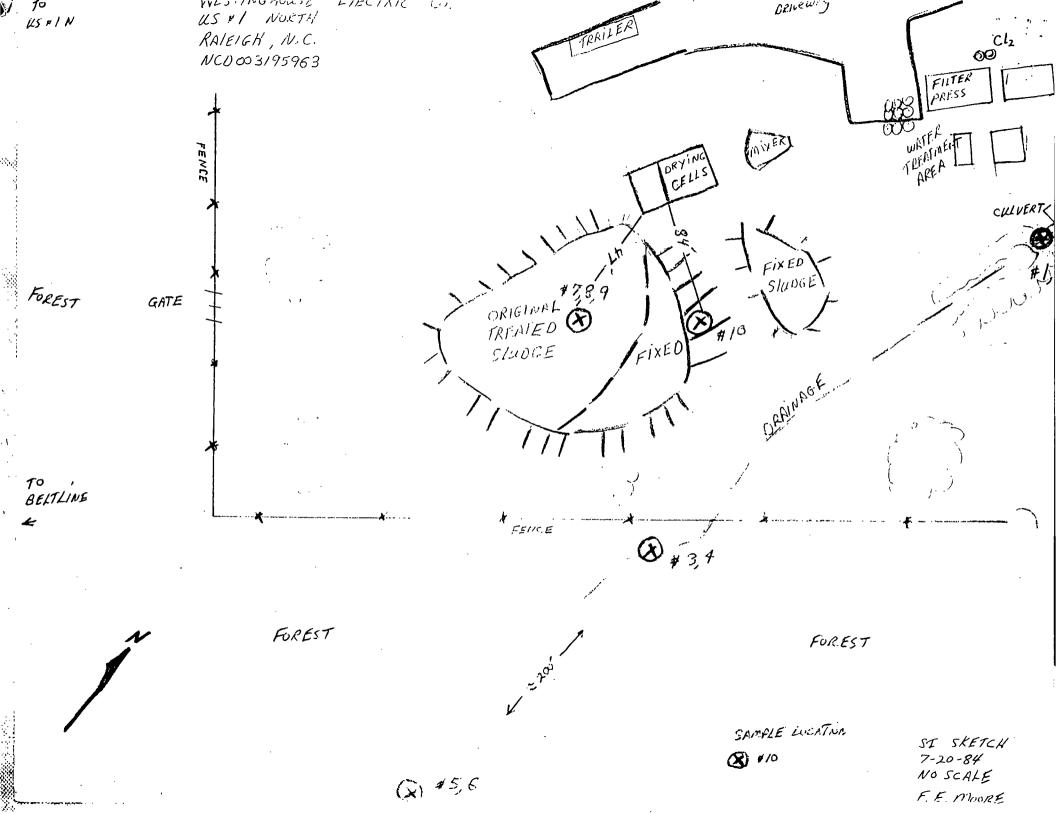
The waste plating sludge was disposed of on site from around 1955 until 1973.

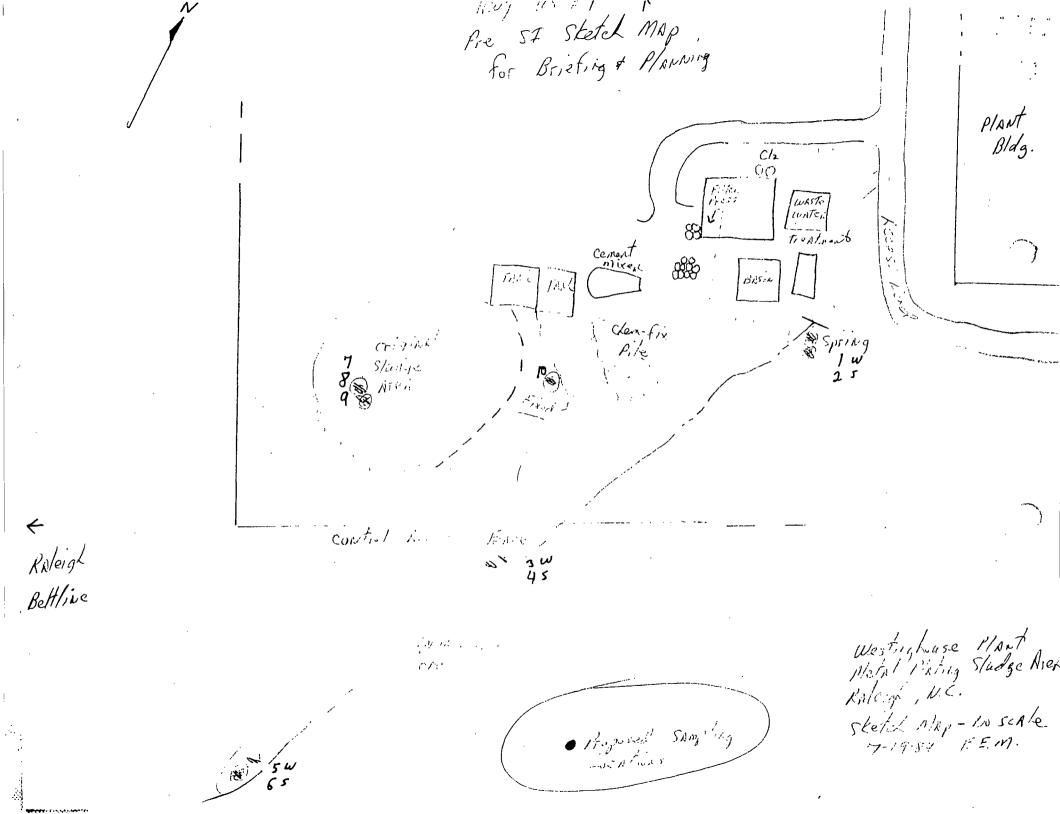
Note: Some waste solvents were also drumed and disposed of off-site (ldfl).

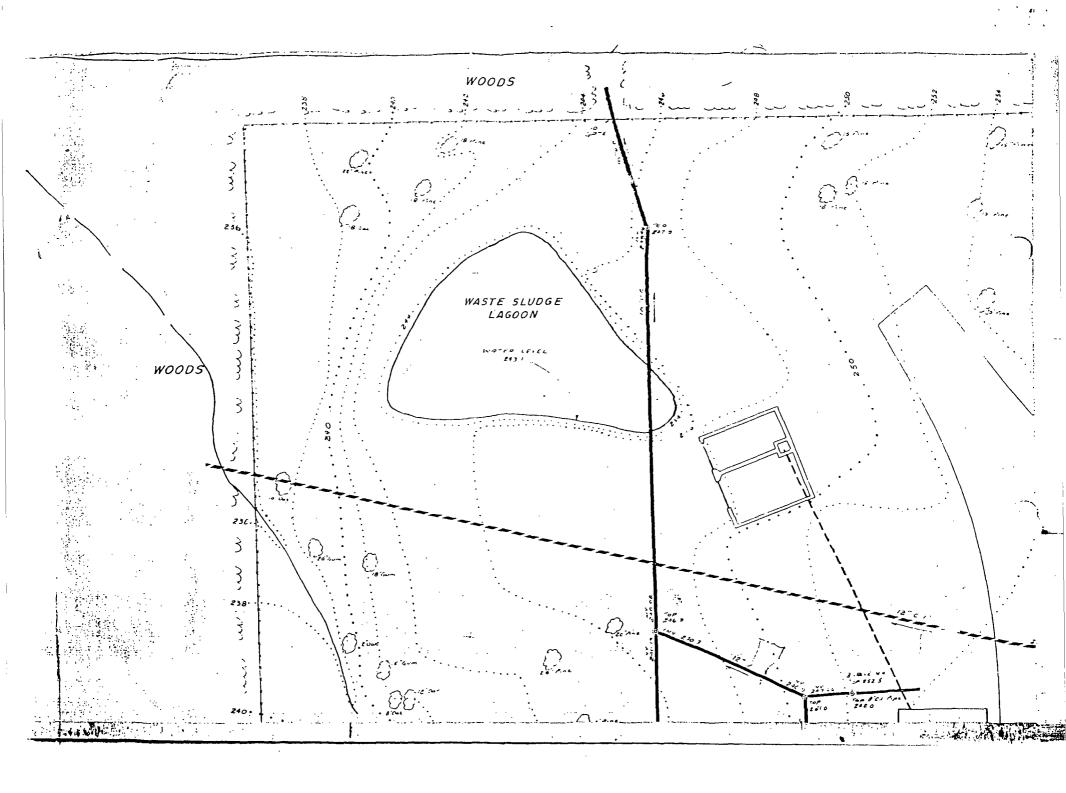
III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample enalysis, reports)

Branch Solid Waste Files













Ronald H. Levine, M.D., M.P.H. STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

August 29, 1984

Mr. David Daugherty Westinghouse Electric Corporation Box 9533 Raleigh, N. C. 27611

RE: Site Inspection Sample Results

Dear Dave:

Please find attached the lab results from the 3012 Program Site Inspection on July 20, 1984. Sorry for the delay, the lab has been very busy this summer.

If you have any questions concerning these results or the site inspection, please contact me at (919) 733-2178.

Sincerely,

Frank E. Moore, Geologist

nk E. Moore

Solid & Hazardous Waste Management Branch Environmental Health Section

FEM: jj attachments

C. DEPARTMENT OF HUMAN RESOU DIVISION OF HEALTH SERVICES

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92 0000 100	_ X	Field	Sample Number σ	01267
Name of Site Westinghours		Site Location As /		
Collected By F. Mark		Date C	ollected	Time
Type of Sample: Environmental Co	oncentrate		<u></u>	
Groundwater Surface Water	Solid Iquid	(# 1) Up - gr	comments,	. Domple
Soil Other .	Sludge Other			
		CHEMISTRY		
Extractables		tal	D. C	
Parameter Results mg/1	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic Barium Cadmium Chromium	Arsenic Barium Cadmium Chromium	<0.01 <0.1 <0.00 <0.00	Chloride Conductivity Copper Fluoride	107 4 mkg 50.05 0.62
Lead Mercury GEIVE	Lead	<0.0002	Iron Manganese	0.30
Selepium Silver	Selenium Silver	<0.05 <0.05 <0.05		7.1
122 ST			Tinc TOC	0.22
	ODCANIC	CHEMISTRY		
Parameter Results mg/l	Parameter		Parameter	Page 11
Endrin	Toxaphene	Results mg/l	PCR c	Results mg/l
Lindane	2,4-D		Petroleum	
Methoxychlor	2,4,5-TP(S	Silvex)	EDB	
			TOX	
MICROBIOLOGY		R.A	ADIOCHEMISTRY	
Parameter		Parameter	Res	ults PCi/l
(MF) Coliform Colonies/1		Gross Alpha		
(MPN) Coliform Colonies/	100mls	Gross Beta		
	e with a		dalal	
Date Received	gars Think is	Date:Reported_	8/4/84	**
Date Extracted		Date Analyzed_		
Reported By		Lab Number	38994	JUL 23 84

DHS 3191 (Revised 2/84) Solid and Hazardous Waste

(2)

C. DEPARTMENT OF HUMAN RESOURCE DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number	100-X	Field	Sample Numb	er 💰	1 68
Name of Site	7 7	ے۔ حد Site I	ocation /	C.	US #/ N
Collected By	: ID# 027		olrected 7		Time 9:35
Type of Sample:					
Environmental Groundwarer Surface Water Soil Other Texmors	Concentrate Solid Liquid Sludge Other	()PERADIE	Comment:		
·	INORGANIC (CHEMISTRY			
Extractables	Tota	11			
Parameter Results mg/l	Parameter R	esults mg/l	Parameter		esults mg/l
Arsenic Barium Cadmium Cadmium Chromium Lead Mercury Selenium Silver Nickel Cojper Joos Joos Joos Joos Joos Joos Joos Joo	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nicked Copper The u Manganese ORGANIC CH Parameter Toxaphene 2,4-D 2,4,5-TP(Sil	Results mg/1	Chloride Conduct: Copper Fluoride Iron Manganes Nitrate PH Sulfates TDS Zinc TOC Parameter PCB's Petrole: EDB TOX	ivityse	7.3
MICROBIOLOGY		R.A	DIOCHEMISTR	Y	
Parameter (MF) Coliform Colonies/ (MPN) Coliform Colonies		Parameter Gross Alpha Gross Beta			s PCi/l
Date Received	Do	te Reported	Q 11	Q 11	
Date Extracted		te Analyzed	o aug	0.4	
Reported By		Number	200	20/ ""	
			- 37C	JUE JUE	. 23 84

13/

C. DEPARTMENT OF HUMAN RESOULD DIVISION OF HEALTH SERVICES

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92-0000 /00	Field Sample Number 00/269				
Name of Site Westindouse		Site Location Ra/			
Collected By F. Moone	ID# \$27		ollected 7 20-8	74 Time 9:45	
Type of Sample:					
Environmental Co Groundwater Surface Water Soil Other	ncentrate _Solid _Liquid _Sludge _Other	Streon S pile #	Comments Arple Adjace 3	to uste	
	INORGANIO	CHEMISTRY			
Extractables		tal			
Parameter Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l	
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	Mercury Sélenium Silver	20.01 20.005 20.0002 20.0002 20.005 20.005 20.005	Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pM Sulfates TDS Zinc TOC	8 104 mbor <0.05 0.79 0.12 0.04 -1.0 1.4 15 108 0.18	
Parameter Results mg/l		CHEMISTRY	Damamakan		
Parameter Results mg/l Endrin Lindane Methoxychlor	ParameterToxaphene2,4-D2,4,5-TP(S	Results mg/l	Parameter PCB's Petroleum EDB TOX	Results mg/l	
MICRORIOLICE		R A	DIOCHEMISTRY		
Parameter (MF) Coliform Colonies/100mls (MPN) Coliform Colonies/100mls		Parameter Gross Alpha Gross Beta	Resu	ilts PCi/l	
Date Received		Date Reported	8/4/84		
Date Extracted	· · · · · · · · · · · · · · · · · · ·	Date Analyzed			
Reported By		Lab Number	38995 JUL	23 84	



DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92-0000	-×	F r ld	Sample Number	0/25/0
Name of Site Westlesh	ouse	Site I	Location	: US #/N
Collected By K. Morne	ID# Q27	Date (Collected 7.20 -	
Type of Sample:			317	,
Environmental Groundwater Surface Water Soil	Concentrate Solid Liquid Sludge Other	Sea Sea	Comments O Ware P	rce #4
		CHEMISTRY		
Extractables		tal		
Parameter Results mg/		Results mg/1	Parameter	Results mg/l
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Video Conser O.01 Ansenic Conser O.05 Ansenic Conser O.02 Parameter Results mg/ Endrin Lindane Methoxychlor	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Victal Copper Trob ORGANIC (1 Farameter Toxaphene 2,4-D 2,4,5-TP(S:	Results mg/l	Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pH Sulfates TDS Zinc TOC Parameter PCB's Petroleum EDB	Results mg/l
			TOX	
	·			
			A D T O CUENT CORDY	
MICROBIOLOGY			ADIOCHEMISTRY	ults PCi/l
Parameter (MF) Coliform Colonies (MPN) Coliform Colonie		Parameter Gross Alpha Gross Beta		urts FCI/I
	•	•		,•
Date Received	D	ate Reported /	. 8Aux8	4.
Date Extracted		ate Analyzed	· · · · · · · · · · · · · · · · · · ·	+
Reported By		ab Number	39007 JUL 2	23 84
				· ·

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C. DEPARTMENT OF HUMAN RESOUR S DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92 - 00000 /0	o _X	Field	Sample Number 00	1475
Name of Site Westington			Location Rol	
Collected By F. Moore	ID# Ø27		Collected 7-20-8	4 Time 10:15 A.
Type of Sample:	,			
Groundwater Surface Water Soil Other	oncentrate Solid Liquíd Sludge Other	Downs (sky	Comments Troom Water giv)	. #5
· · · · · · · · · · · · · · · · · · ·	INORGANIC	CHEMISTRY		
Extractables		tal		
Parameter Results mg/l	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic Barium Cadmium Chromium Lead Mercury Selenium CEIVE Silver AUG Parameter Results mg/l Endrin Lindane Methoxychlor	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Victor ORGANIC Parameter Toxaphene 2,4-D 2,4,5-TP(S	20.01 20.005 20.0002 20.0002 20.005 20.005 20.005 CHEMISTRY Results mg/1	Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pH Sulfates TDS Zinc TOC Parameter PCB's Petroleum EDB TOX	5 15 Mmlos <0.05 0.72 0.14 0.07 <1.0 7.2 17 104 0.18 9
MICROBIOLOGY		R.A	ADIOCHEMISTRY	
Parameter	T	Parameter		lts PCi/1
(MF) Coliform Colonies/I (MPN) Coliform Colonies/		Gross Alpha Gross Beta		
Date Received Received	ing and the second of the seco	ate Reported	8/2/89	
Date Extracted		ate Analyzed	/ / /	
Reported By		ab Number	38996 JUL 23	SR
		au Number	, , 0 001 23	<u>U4</u>

DHS 3191 (Revised 2/84) Solid and Hazardous Waste 136

DEPARTMENT OF HUMAN RESOURCE DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH

STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92 - # \$50/0	Alexander of the second	Field	Sample Number O	0 1476
Name of Site	WestingLo	Sille I	ocation Rice	15 + 1N
Collected By	ID# 027		Collected 20-8	
Type of Sample			r ,	
«Environmental (Concentiate		Comments	7. #
Groundwater,	Solid	Down		× # 5(6)
Surface Water VI	Liquid	DOWN ST	arm Fedinal	, ,
Soil	Sludge	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
× Other Sea	Other		<u> </u>	
	INORGANIO	C CHEMISTRY		
Extractables	To	tal		
Parameter Results mg/1		Results mg/l	Parameter	Results mg/1
Arsenic Co.Ol	Arsenic	<0.50	Chloride	
Barium	Barium	_/0	Conductivity	
Cadmium So. 05	Cadmium	73.5	<u>✓</u> Copper	
Chromium	Chromium Lead	70	Fluoride Iron	
	Mercury	-3	Manganese	
Mercury (0.02) Selenium	Selenium	25.0	Nitrate	
Silver So.05	Silver	73.0	- pH	7.2
Nickel So.05	Nickel	7.4.3	Sulfates	
Copper 50.05	Conser	19	TDS	
Trop 0.50	Tran	5320	Zinc	
Mangarere CO. O.S	Manyana	~ ~	TOC	
7: uc 0.25	Fine	50		
	ORGANIC	CHEMISTRY		
Parameter Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	Toxaphene		PCB's	
Lindane	2,4-D		Petroleum	
Methoxychlor	2,4,5-TP(S	ilvex)	EDB	
			TOX	·
		- [
MICROBIOLOGY	<u> </u>	R.A	ADIOCHEMISTRY	
Parameter	 -	Parameter		ılts PCi/l
(MF) Coliform Colonies/	100m1s	Gross Alpha		101/1
(MPN) Coliform Colonies		Gross Beta	_ 	
				: .
Date Received	I	Date Reported_	8 40984	•
Date Extracted	I	Date Analyzed_	. /	
Reported By	•	_ab Number	39008 JUI	22.84
			37000 Jul	

DHS 3191 (Revised 2/84) Solid and Hazardous Waste Tyl.

DEPARTMENT OF HUMAN RESOURCES STATE LABORATORY OF PUBLIC HEALTH

P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 92-000/0	ю ~×	Field	Sample Number 00	1477
Name of Site West Manuel		Site I	Location RAL	
Collacted By F. Mooks	ID.	Date (Collected - 20-	8 Time 10: 30
Type of Sample:		and a second		
Eqvironmental	oncentrato	<u>.</u>	. Comments	
	∠ Solid	SLUDGE CO	4103/TE FRO	1
Strface Water	Liquid	ONE TO 2	AIX FEST	#7
Soil	Sludge	y		·
Other \	Other			
	INORGANIC	CHEMISTRY		
Extractables	То	tal		
Parameter Results mg/1	Parameter	Results mg/1	Parameter	Results mg/l
Arsenic	<u> </u>	60.49	Chloride	<u> </u>
Barium _0.7	<u> </u>	212	Conductivity	
Cadmium 0.17		665	Copper	
Chromium 0.97		936	Fluoride	
Lead 0.2	\ \ Lead	34	Iron	
Mercury 6.02	Mercury	50.10	Manganese	
Selenium CO.10	∑ Selenium	<u> </u>	Nitrate	
Silver / So. o.5	Silver	<u> </u>	pH)	10,0
Nickel 0.19	Willed		Solfates	
- Ca 9.27	1/Cu		TDS	
1- Zu S0.05	JUN	200	Zinc	
1 Fe (0.05	- Zy	2270	TOC	
/MN 0.04	7 70	3730		
L	1 m	/03		
		CHEMISTRY		
Parameter Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	Toxaphene		PCB's	
Lindane	2,4-D		Petroleum	
Methoxychlor	2,4,5-TP(S	ilvex)	EDB	
			TOX	
MICROPIOLOGY	1	<u> </u>	ADIOCHEMISTRY	
MICROBIOLOGY Parameter		Parameter		ults PCi/l
(MF) Coliform Colonies/	100m1s	Gross Alpha		dies rel/i
(MPN) Coliform Colonies		Gross Beta		
	7 10011115	01000 Deta		
				\ .
				·
Date Received	I	Date Reported_	3A0984	
Date Extracted		Date Analyzed_	· /	<u> </u>
Reported By	I	Lab Number	39011 JUL	23.84

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. DEPARTMENT OF HUMAN RESOURCE DIVISION OF HEALTH SERVICES

STATE LABORATORY OF PUBLIC HEALTH

P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

ite Number	92-0000010	0	Field	Sample Number 00	0/334
ume of Site_	WostinLouse	, <u> </u>	Site I	ocation (15#1	N ROL
ollected By_	F. MOCRR	ID# 727	Date (Collected 7-20-8	9 Time 10:4
pe of Sample	e:				
Environment Groundwa Surface Soil Other	ater	Solid Liquid Sludge Other		Comments Lole 5-6 Lo Solventos 1 Man-Lakono	in pit
		_		The state of the s	7
F.v	tractables		CHEMISTRY tal		
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Parameter Endrin Lindane Methoxyc	Results mg/1	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	CHEMISTRY Results mg/l	Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pH Sulfates TDS Zinc TOC Parameter PCB's Petroleum EDB TOX	Results mg/l
			18182		
	MICROBIOLOGY			DIOCHEMISTRY	 -
(MF) Col	ameter iform Colonies/l liform Colonies/		Parameter Gross Alpha Gross Beta	Resu	lts PCi/l
	CE .	For KAlogoral	ut for-Later	gested sofiend	
ate Received	1/20/84	D	ate Reported_	8/24/89	7
ate Extracte	•d	D;	ate Analyzed	8/22/8/	
				4/100000	· - ·

DHS 3191 (Revised 2/84) Solid and Hazardous Waste

C. DEPARTMENT OF HUMAN RESOURG DIVISION OF HEALTH SERVICES

STATE LABORATORY OF PUBLIC HEALTH

P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number <u>92-00001</u>	Field Sample Number 00/478				
lame of Site Ilas Instan	86	Site Location RAL			
Collected By	ID#_ 027	Date (Collected 7-20-84	Time //:00	
Type of Sample: F. Moore		· .			
Environmental C Groundwater	oncentrate Solid	501L	Comments ASSUMED & BOTT O		
Surface Water	Liquid Sludge	01 77	6.5 70 \$ FEE	7) # 7	
0ther	Sruage Other				
Extractables		C CHEMISTRY			
Parameter Results mg/l	Parameter	Results mg/1	Parameter F	Results mg/1	
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nicker O.05 Coaper O.05 Arsenic O.01 O.05 O.05 O.02 Selenium O.05 O.05 O.05 O.05 O.05 Arsenic O.05 O.05 O.05 Arsenic O.05 O.05 Arsenic O.05 O.05 Arsenic	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Mucer Copper Thom ORGANIC Parameter Toxaphene 2,4-D	CHEMISTRY Results mg/l	Chloride Conductivity Copper Fluoride Iron Manganese Nitrate PH Sulfates TDS Zinc TOC Parameter PCB's Petroleum	7, 8 Results mg/1	
Methoxychlor	2,4,5-TP(S	Silvex)	TOX		
MICROBIOLOGY		· RA	ADIOCHEMISTRY		
Parameter (MF) Coliform Colonies/ (MPN) Coliform Colonies,		Parameter Gross Alpha Gross Beta	Resul	ts PCi/l	
				•	
Date Received		Date Reported_	8 Aug 84		
Date Extracted		Date Analyzed_		.1	
Reported By		Lab Number	39009 JUL 23 E	34	

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C. DEPARTMENT OF HUMAN RESOUR DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH

P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

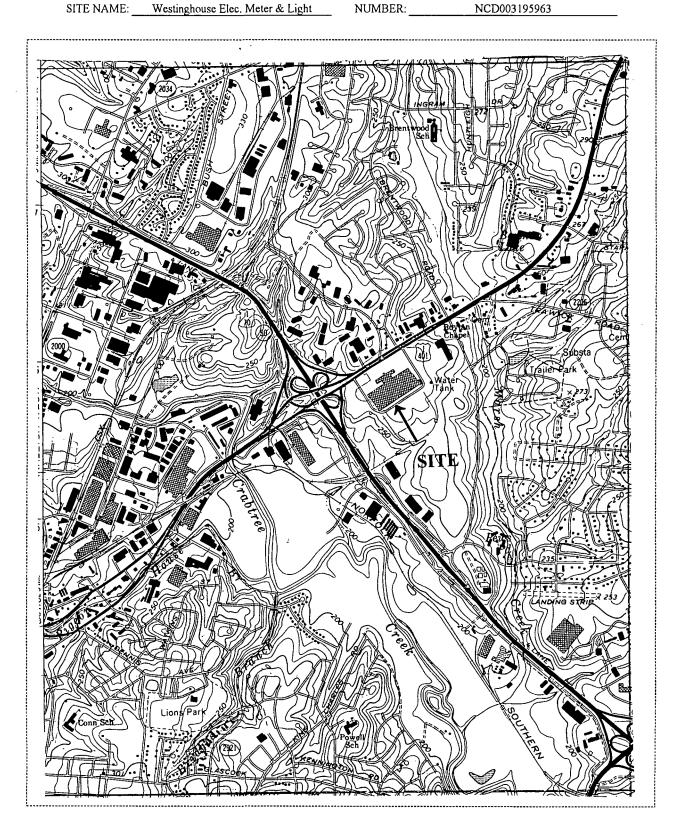
Site Number 92 -0000/00	Field	Sample Number	001479	
Name of Site WESTINGNO		Site I	Location A	
Collected By F. Marco	ID# 027	Date (Collected 7-2	34 Time //10
Type of Sample:		chem-		
Environmental	oncentrate	Cut-m- EIX	Comments	0 0/
	Solid	(145-101-)-1X	ED SHAPLE	for Pile
Surface WaterSoil	Liquid			
Other	Sludge Other			
				
	INORGANIO	CHEMISTRY		
Extractables Parameter Results mg/l	Parameter	Results mg/l	Parameter	Page 15 a = 1/1
		A U9	Parameter	Results mg/l
Arsenic (0.01	Arsenic		Chloride	
Barium interference	Barium /	terference	Conductivity	
Cadmium 0.71	Cadmium	243	Copper	
∠ Chromium	∠ Chromium	767	Fluoride	
	Lead	54	Iron	
	Mercury	50.10	- Manganese	·
Selenium Co. 10	Selenium	25.0	Nitrate	
Silver 0.05	✓ Silver	<u> </u>	PH Jan	12.1
Vicicus 0.42	- Muce	495	Sulfates	
	1 CN-	260	TDS	
1 C/4 0.73	1 Cu	7248	Zinc	
J ZN 7.20	7 71	5150	TOC	
1 52 0.05	1 Fe	7425		
/ MN 0.42	1 Min	146		
•	ORGANIC	CHEMISTRY		
Parameter Results mg/1	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	Toxaphene		PCB's	
Lindane	2,4-D		Petroleum	
Methoxychlor	2,4,5-TP(S	ilvex)	— _{EDB}	
			TOX	
	<u> </u>			
MICROBIOLOGY			ADIOCHEMISTRY	
Parameter		Parameter		sults PCi/1
(MF) Coliform Colonies/		Gross Alpha	· . ———	
(MPN) Coliform Colonies	/100mls	Gross Beta		
<u> </u>				

				÷
Date Received		Date Reported_	8AUX 8	sų.
Date Extracted		Date Analyzed	/ %	•
Reported By		Lab Number	39010 JUL	. 23 84

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #2

LI USING ENGINEER'S SCALE (1/60)

SITE NAME:	Westin	ghouse Elec.	Meter & l	ight (CERCLIS #:_		NC	D00319	95963	
AKA:	ABI	B Power T & I	Co., Inc.	•	SSID:			n.a.	·	
ADDRESS:				2728 Ca	pital Blvd		•			
CITY:	Rale	igh	_ STATE:	NC	ZIP	CODE:		2	7604	
SITE REFERENC	E POINT:			southern n	nost corner	of bui	lding			•
USGS QUAD MAP	NAME:	Ral	eigh East		TOWNSHIP:	-	N/S	RANG	Æ: - _	E/W
SCALE: 1 : 2	4,000	MAP DATE:	1987	-	SECTION:	_	1/4	1	L/4 <u> </u>	1/4
MAP DATUM	1927	1983	(CIRCLE C	NE)	MERI	DIAN:				
COORDINATES F	ROM LOWER	RIGHT (SOUT	HEAST) COR	NER OF 7.5	' MAP (atta	ch pho	tocopy)		
LONGITUDE:	78	° 30 '	0.00 "	· LA	TITUDE:	35	· _	45	0.00	<u> </u>
COORDINATES F	ROM LOWER	RIGHT (SOUT	HEAST) COR	NER OF 2.5	' GRID CELL	:				
LONGITUDE:	78	° <u>35</u>	0.00 "	· LA	TITUDE:	38	<u> </u>	47	30.0	<u>0</u> "
CALCULATIONS:	LA	TITUDE	(7.5' QUA	DRANGLE MA	AP)					
A) NUMBER OF	RULER GR	ADUATIONS FR	OM LATITUD	E GRID LIN	E TO SITE R	EF POI	NT:	_	19	3
B) MULTIPLY	(A) BY	0.3304 TO CO	NVERT TO S	ECONDS:						
A X 0.3304	=		63.77 "							
C) EXPRESS I	N MINUTES	AND SECONDS	(1' = 60	" ,) :	-	1	_ '	3.77	"	
D) ADD TO ST.	ARTING LA	TITUDE:	38°	47	30.00 "	+	_	1	3.7	7_"
SITE LATIT	UDE:	38 °	48 '	33.77 "						
CALCULATIONS:	LO	NGITUDE	(7.5' QU	ADRANGLE N	IAP)					
A) NUMBER OF	RULER GR	ADUATIONS FR	OM RIGHT L	ONGITUDE I	INE TO SITE	REF P	OINT:	_	23	9
B) MULTIPLY	(A) BY	0.3304 TO CO	NVERT TO S	ECONDS:						
A X 0.3304	, =		78.97 "							
C) EXPRESS I	N MINUTES	AND SECONDS	(1' = 60	· · · · · · · · · · · · · · · · · · ·	_	1	<u>'</u>	8.97	"	
D) ADD TO ST	ARTING LA	TITUDE:	78°	35 '	0.00_ "	+	_	1	18.9	7 "
SITE LONGI	TUDE:	78 °	36 '	18.97 "]					
INVESTIGATOR:	Me	lance	Bupo	<u> </u>	DATE:		03/2	27/2001	1	_



TOPOGRAPHIC MAP QUADRANGLE NAME: Raleigh East SCALE: 1:24,000

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LATITUDE:

38°

47 ' 30.00 " LONGITUDE: 78 ° 35 ' 0.00 "



INSPECTION TO ASSESS COMPLIANCE WITH CLOSURE/POST CLOSURE REQUIREMENTS AT WESTINGHOUSE CORPORATION RALEIGH, NORTH CAROLINA NCD003195963

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, D.C. 20460

Work Assignment No. : 536 EPA Region : 4

 Site No.
 : None (R)

 Date Prepared
 : May 7, 1987

 Contract No.
 : 68-01-7037

 PRC No.
 : 15-5360-00

Prepared By : Alliance Technologies

Corporation

Telephone No. : (617) 275-5444 EPA Primary Contact : Doyle Brittain Telephone No. : (404) 347-7603

ENFORCEMENT CONFIDENTIAL

PRIVILEGED WORK PRODUCT PREPARED IN AKTICIPATION OF LITIEATION

U.S. ENVIRONMENTAL PROTECTION AGENCY Residuals Management Branch Waste Compliance Section Atlanta, Georgia 30365

Contract No. 68-01-7037 Work Assignment No. 536

EPA Project Officer Doyle Brittain

Inspection to Assess Compliance with Closure/Post Closure Requirements at Westinghouse Corporation Raleigh, North Carolina NCD003195963

Final Report

Prepared by

William Battye, P.E. (NG Registration No. 11881)

Calvin Overcash

GCA TECHNOLOGY DIVISION, INC. Chapel Hill, North Carolina 27514

CONTENTS

	·	Page
1.	Introduction	1
2.	Facility Description	2
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SECTION 1 INTRODUCTION

Regulations promulgated under the Resource Conservation and Recovery Act (RCRA) require that operators of hazardous waste management facilities have a written closure plan approved by the U.S. Environmental Protection Agency or appropriate State regulatory agency. The regulations also detail specific requirements for the closure and post closure care of such facilities. Under a work assignment for the U.S. Environmental Protection Agency Region IV Waste Compliance Section (EPA Contract No. 68-01-7037 Work Assignment 536), GCA Technology Division, Inc. inspected facilities in EPA Region IV where some or all of the waste management operations have been closed. The purpose of these inspections was to determine whether the facility operators followed their approved closure plans and complied with the requirements of RCRA in closing waste management units.

On May 6, 1986, Messrs. William Battye and Calvin Overcash inspected the Westinghouse Corporation plant, Hwy 1 North, Raleigh, North Carolina (NCD003195963), which had closed a mixer and two tanks used to stabilize electroplating wastes (F006), and a surface impoundment used to dry these wastes. Mr. David Daugherty, Senior Manufacturing Engineer, and Ms. Mary Fox, Environmental Control Officer, provided information on activities carried out to close these units, and on operations at the Westinghouse facility.

Mr. Overcash also reviewed RCRA files on the facility at the North Carolina Department of Human Resources (NCDHR) in Raleigh, and spoke to

Mr. Jerry Rhodes of NCDHR to clarify the application of RCRA rules in the case of the surface impoundment.

The remainder of this report is divided into five sections: Section 2 - Facility Description; Section 3 - Closure Plans and Chronology; Section 4 - Inspection Findings; Section 5 - Conclusions; and Section 6 - References.

Also included are three Appendices: Appendix A - Inspection Notes and Checklist; Appendix B - Documents from File Review; and Appendix C - Other Documents. References listed in Section 6 may also be reproduced in Appendices B and C.

SECTION 2 FACILITY DESCRIPTION

GENERAL

Westinghouse Corporation's Raleigh, North Carloina facility manufactures watthour meters and meter components. The facility is vertically integrated, with numerous manufacturing operations carried out on-site, including machining, electroplating, and metal cleaning. Plating wastewaters are treated on-site, and plating wastewater sludges are the largest volume hazardous waste generated at the facility. Other hazardous wastes generated are: degreasing still bottoms, waste solvents, paint and ink sludges and precipitates, and solutions from plating tanks. Sludges from the treatment of plating and other wastewaters formerly were disposed of in an on-site impoundment, but are now shipped off-site for disposal. The treatment and disposition of plating wastewaters and sludges is discussed in more detail below. All other wastes are also shipped off-site for disposal or recycling. Westinghouse applied under RCRA Part A to store wastes on-site prior to their shipment for disposal. In 1984, Westinghouse applied to discontinue the drum storage facility as a RCRA facility. The company will continue to store wastes in the drum storage facility for up to 90 days.

WASTEWATER TREATMENT AND DISPOSAL OF SLUDGES

Process wastewaters at the Westinghouse plant are collected in two sewers: a cyanide sewer, and an acid/alkali sewer. Cyanide wastewaters undergo chlorine oxidation. Acid/alkali wastewaters that contain chromium are treated with sodium bicarbonate to reduce the chromium from Cr^{+6} to Cr^{+3} . After these treatment steps, the process wastewaters are mixed together and the pH of the final solution is adjusted. The combined stream is then fed to a flocculator and a clarifier, after which it is mixed with cleaning water solutions and discharged to the Raleigh POTW. Precipitate from the clarifier is thickened in a filter press, and the final sludge (FOO6) is shipped to GSX

Corporation in Pinewood, South Carolina for burial. The wastewater treatment operations discussed above are performed in several in-ground rubber-lined concrete tanks.

Prior to 1974, plating wastewater sludges were disposed in an on-site impoundment. After 1974 and before installation of the filter press, plating sludges were fixed with sodium silicate and portland cement in a cement mixer and then stored in two in-ground concrete storage basins prior to shipment to SCA Services (now GSX) for disposal. In 1984, Westinghouse applied to close the mixer and the two basins and withdrew its Part A application to use the two basins for hazardous waste storage. In 1985, Westinghouse applied to close the solid waste impoundment that was formerly used to dispose of plating sludges. After consultation with the State of North Carolina, it was agreed that the closure of the mixer and the two sludge storage basins are covered by the RCRA requirements, while the closure of the solid waste impoundment was not covered. 2

SECTION 3 CLOSURE PLANS AND CHRONOLOGY

Three different operations have recently been closed at Westinghouse Corporation's Raleigh, North Carolina plant: the drum storage operation; the plating sludge handling operation, comprising a mixer and two in-ground sludge storage tanks; and the solid waste impoundment that was formerly used to dispose of plating sludge. The drum storage and sludge handling operations were included in the original Part A application. The solid waste impoundment was used to dispose plating wastes before the promulgation of RCRA rules (pre-1974) and was therefore not included in the Part A application. As a condition for final approval of the closure of the RCRA facilities, the State North Carolina Department of Human Resources (NCDHR) required that the solid waste impoundment also be closed. It was agreed by Westinghouse and the State that the solid waste impoundment closure was not regulated under RCRA, but the State required that the closure be carried out under an approved closure plan, using procedures that would generally conform to RCRA requirements. 2

Table 1 gives a chronology for the closure of all three of the above facilities. As the table indicates, two separate closure plans were filed, one for the facilities that were covered under RCRA, and one for the solid waste impoundment. The following sections describe briefly the procedures detailed in the closure plans for the three facilities.

CLOSURE OF THE DRUM STORAGE FACILITY3,4

The closure plan for the drum storage area simply called for the removal of any drums that had been stored on-site for a period of over 90 days. These were to be shipped to SCA Services (now GSX) in Pinewood, South Carolina. The drums were to be inspected for proper packaging and labeling. In the event of damage to a drum, the drum was to be placed in an overpack, or the drum contents transferred to new drums. Any residue in the drum storage area was to be drummed and removed.

CLOSURE OF THE PLATING SLUDGE HANDLING FACILITY3,4

Hazardous Waste Tanks

At the time the RCRA facility closure plan was submitted, the hazardous waste tanks were no longer in use. All liquid in the tanks had been pumped to the new on-site wastewater treatment facility, and the remaining sludge had been shoveled into a 55-gallon drum and solidified with absorbent material.

The closure plan called for the removal of piping associated with the handling operation, and the shipment of the collected sludge to SCA Services. Following these removal operations, the tanks were to be thoroughly rinsed with water, with the contaminated water collected and treated in the Westinghouse wastewater treatment facility. Floor samples were then to be taken from each concrete tank, and soil samples were to be taken from the flat area in front of the Northern tank. These were to be analyzed for E.P. toxicity, with no further clean-up action required if no E.P. toxicity was shown. Additional clean-up of soil and/or removal of the tanks was to be done if the samples were E.P. toxic. State approval of the closure plan was conditional on the removal of all material for which leachable levels of contaminants exceeded 10 times the applicable drinking water standard. 9

Mixer

The closure plan called for the removal of hardened residue in the mixer and sampling of the material for E.P. toxicity. If sampling indicated the residue to be E.P. toxic, the mixer was to be classified as hazardous and shipped off-site for disposal. Otherwise, the mixer was to be sold for scrap. The removed residue, and any visible spills or leakage around the mixer was to be drummed and sent to SCA Services.

TABLE 1. CHRONOLOGY OF CLOSURES AT THE WESTINGHOUSE PLANT

May 16, 1984		or the drum storage area and the sludge ormalized. The plan gives the following
	May 25, 1984	Notify the North Carolina Department of Human Resources of intent to close.
	June 11, 1984	Receive plan approval. The subsequent schedule is contingent on receipt of approval. (Note: Approval was not received until May 8, 1985; see below.)
	July 6, 1984	Take samples for E.P. toxicity test.
	July 13, 1984	Complete removal of containers from drum storage area.
	July 20, 1984	Drum storage area decontamination.
	August 10, 1984	Complete decontamination of mixer and tanks.
	August 31, 1984	Complete removal of containers from mixer and tank decontamination.
	September 7, 1984	Disposal of mixer.
	September 14, 1984	Backfill or removal of tanks.
	September 21, 1984	Final grading of site.
	September 28, 1984	Notification of completion of closure to the North Carolina Department of Human Resources.
May 1984 to October 1985	closure of the soli approval of the dru	e State of North Carolina discuss the d waste impoundment. The State makes m storage area and the sludge storage the closure of the solid waste
February 20, 1985		s a closure plan for the solid waste lan includes the following schedule: ⁵
	March 31, 1985	Final approval of plan by the State.

(continued)

	May 31, 1985	Complete bid evaluations and select disposal site and subcontractors.
	June 28, 1985	Complete site preparation.
	July 31, 1985	Begin removal of wastes.
	August 31, 1985	Complete removal of waste.
	September 30, 1985	Complete final grading and seeding.
March 27, 1985	The State of North the solid waste imp	Carolina approves the closure plan for poundment.6,7
April 29, 1985	Westinghouse begins waste impoundment.	removal of material from the solid
May 8, 1985	impoundment, the Suplan with a change State approval (May	in the closure of the solid waste tate approves the May 24, 1984, closure in schedule based on the actual date of 20, 1985 instead of June 11, 1984), and tion level that would prompt additional
May to July 1985		eds with closure activities on both the ment and the drum and sludge storage
May 30, 1985	Westinghouse comple waste impoundment.	etes removal of material from the solid
July 18, 1985		ves Professional Engineer certification the drum storage area and the sludge anks. 10
July 31, 1985		es the State that it has completed described d
August 5, 1985		es the State that it has completed a storage area and the sludge mixer and
October 15, 1985	drum storage area a The State also conc	Carolina approves the closure of the md the sludge mixer and storage tanks. urs that closure of the solid waste formed in accordance with the closure

The solid waste impoundment was used to contain metal plating wastewater treatment sludges treated with lime from the mid-1950's through 1972. There was also an area adjacent to the impoundment which consisted of soil from grading, lime sludge and sludges fixed with sodium silicate and cement. A closure plan was submitted on February 20, 1985 and approved by NCDHR. The plan stated that E.P. toxicity tests had been done on the wastes for copper, nickel, cadmium, chromium, lead, and cyanide. Although the total metal content was high, the leachable levels of the E.P. toxic metals were below the maximum allowed concentration limit and consequently the wastes would not be classified as hazardous based upon E.P. toxicity.

The closure plan called for excavation of all sludge and contaminated soil and disposal at the GSX landfill in Pinewood, South Carolina. The excavation depth was to have been determined visually since the sludge was very different from the soil in appearance. Soil samples taken from under the waste level in the impoundment and from borings made in the surrounding soil dike were subjected to leachate testing prior to submittal of the closure plan. Figure 1 shows the locations where soil samples were taken. Since the leachate levels from these samples were very low, Westinghouse concluded that removal of all waste and contaminated soil by visual inspection would yield a site with no significant potential for future impact. After waste removal, a field composite of the affected area was taken and subjected to leaching tests. The E.P. toxicity leachate results were below the 10 times drinking water standards as required by NCDHR. Locations and depths from which soil was sampled are shown in Figure 1. The site was then graded to a gently sloping contour and seeded.

Four downgradient groundwater monitoring wells were installed in December 1984, prior to submittal of the closure plan. Monitoring well locations are shown in Figure 1. Samples taken before and during closure met or were close to drinking water standards. (Results are discussed in more detail in the following section.) The closure plan called for monitoring to

Figure 1. Location of soil samples and monitoring wells for the solid waste impoundment.

,

continue for four consecutive quarters after closure to determine any adverse effect on the groundwater. In the absence of adverse effect, the well casings would be removed and the holes plugged.

SECTION 4

INSPECTION FINDINGS

Checklists used during the inspection are included in Appendix A.

Included in Appendix B are telecommunications records of Jerry Rhodes of NCDHR. The following is a compilation of the inspection results.

DRUM STORAGE FACILITY

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The drum storage area is a diked, concrete pad surrounded by a chain link fence with a locked gate and covered by a roof. There is a sump at the low point of the pad to allow for collection of blown in rainwater. The drum storage area contained many empty drums to be used for waste, 30 drums of waste oil (non-hazardous), 25 drums of perchloroethylene to be shipped to Safety-Kleen for solvent recovery, and 12 drums of phosphate sludge. All hazardous waste drums were labelled and had been in storage less than 90 days. No contamination or evidence of spillage was observed. Closure of the drum storage area was certified by William L. Klotz, P.E., on July 18, 1985, and John S. Robinson, General Manager of Westinghouse's Raleigh Meter Division on August 5, 1985. 10,11

PLATING SLUDGE HANDLING FACILITY

Hazardous Waste Tanks

The hazardous waste tanks were decontaminated by sandblasting. Sample analyses of the tank walls and the surrounding soil indicated a leachable contaminant level less than 10 times drinking water standards. 13 Associated contaminated piping and the material used to sandblast the tank clean were disposed at GSX, Pinewood. 14 The tank walls were then pushed over and buried in place under approximately five feet of soil according to Westinghouse representatives. This closure information was certified by William L. Klotz, P.E., on July 18, 1985, and John S. Robinson, General Manager of Westinghouse's Raleigh Meter Division on August 5, 1985. 10,11

Mixer

The mixer and all associated contaminated piping, pumps, railing, etc., were shipped to GSX, Pinewood for disposal. 14 Manifests for the shipment of the mixer are reproduced in Appendix B. 11 Closure was certified complete by William L. Klotz, P.E., on July 18, 1985, and John S. Robinson, General Manager of Westinghouse's Raleigh Meter Division on August 5, 1985. 10,11

SOLID WASTE IMPOUNDMENT

The solid waste impoundment was closed as a solid waste unit and not a hazardous waste unit. ² Sludge from the bottom of the impoundment was removed to GSX. ⁸ A composite of six samples of soil from beneath the impoundment (Figure 1) indicated E.P. toxicity leachate were below drinking water standards. ¹⁵ The impoundment was graded in a gentle slope away from the adjacent wastewater treatment plant and was covered with grass. The General Manager of Westinghouse informed NCDHR of completed closure on July 31, 1985. No certifications of closure were submitted since this was a solid waste closure not a RCRA closure, even though the closure was performed in a manner that would generally conform to RCRA requirements.

Environmental Analysts, Inc. Monitoring results from December 1984 had shown a cadmium concentration of 0.03 ppm in Well 2, which exceeds the drinking water standard of 0.01 ppm. 16 Monitoring in April 1986 showed levels of all contaminants below detection limits or below the applicable drinking water standard. 17 (The detection limit for lead in the analyses for Westinghouse is twice the drinking water standard; however, sample splits analyzed by NCDHR (April 1985) have shown lead levels less than drinking water standards.) 18 EPA has not delegated authority to NCDHR to require corrective action for releases made prior to the promulgation of RCRA rules. 12 Therefore, NCDHR is keeping EPA Region IV appraised of the monitoring results.

SECTION 5 CONCLUSIONS

On May 6, 1986, Messrs. William Battye and Calvin Overcash inspected Westinghouse Corporation, Raleigh, North Carolina. The following items were noted during the inspection and file review:

- The closure plan for the storage and handling areas was approved by the NCDHR and meets all RCRA requirements. Materials reviewed by GCA at the inspection and in NCDHR files suggest that closures of the storage and handling facilities conformed to the approved closure plan and to RCRA rules. Closure was certified by a P.E. and by the Westinghouse General Manager.
- The drum storage was secured with a fence and locked gate, diked, and no drums of waste stored more than 90 days were observed.
- The area where the hazardous waste tanks and mixer were located was graded to facilitate runoff and vegetation was growing.
- The surface impoundment and adjacent area were closed as a solid waste unit, not a RCRA unit. The area was graded to facilitate runoff and vegetation was growing. No closure certification was required.
- Groundwater monitoring studies are being conducted to determine whether past operation of the impoundment caused any contamination. Samples taken in April 1986 showed contaminant levels below drinking water standards or below detection limits.

Based on discussions with plant personnel, review of available files, and an inspection of the Westinghouse facility, it appeared that the facility closed in accordance with its closure plan. The facility is currently undergoing groundwater assessment. If it is determined that groundwater contamination is present, post closure care should be instituted.

SECTION 6

REFERENCES

- 1. Letter from David Daugherty, Senior Manufacturing Engineer, Westinghouse Electric Corp., to Frank Moore, North Carolina Department of Human Resources. Documentation on Past Handling of Solid and Hazardous Waste. August 15, 1984. (Reproduced in Appendix B, Item 3.)
- 2. Telecon. Calvin Overcash, GCA Technology Division with Jerry Rhodes, North Carolina Department of Human Resources. May 15, 1986. (Reproduced in Appendix C, Item 1.)
- 3. Westinghouse Electric Corp. Storage Areas Closure Plan. May 16, 1984. (Reproduced in Appendix B, Item 1.)
- 4. Letter from David Daugherty, Senior Manufacturing Engineer, Westinghouse Electric Corp., to Jerry Rhodes, North Carolina Department of Human Resources. Additional Information on Storage Areas Clsoure Plan. August 13, 1984. (Reproduced in Appendix B, Item 2.)
- 5. Letter from John Robinson, General Manager, Westinghouse Electric Corp., to William Meyer, North Carolina Department of Human Resources. Solid Waste Impoundment Closure Plan. February 20, 1985. (Reprodued in Appendix B, Item 4.)
- 6. Letter from David Daugherty, Senior Engineer, Westinghouse Electric Corp., to William Meyer, North Carolina Department of Ruman Resource. Additional Information on Solid Waste Impoundment Closure Plan. March 22, 1985. (Reproduced in Appendix B, Item 5.)
- 7. Letter from William Meyer, North Carolina Department of Human Resources, to John Robinson, Westinghouse Electric Corp., Approval of Solid Waste Impoundment Closure. March 27, 1985. (Reproduced in Appendix B, Item 6.)
- 8. Letter from John Robinson, General Manager, Westinghouse Electric Corp., to William Meyer, North Carolina Department of Human Resource. Additional Information on Closure Activities for Solid Waste Impoundment. July 31, 1985. (Reproduced in Appendix B, Item 9.)
- 9. Letter from Jerry Rhodes, North Carolina Department of Human Resources, to David Daugherty, Westinghouse Electric Corp. Approval of Storage Areas Closure Plan. May 8, 1985. (Reproduced in Appendix B, Item 7.)
- 10. Letter from William Klotz, P.E., to Westinghouse Electric Corp.
 Certification of Closure for Storage Areas. July 18, 1985. (Reproduced in Appendix B, Item 8.)

- 11. Letter from John Robinson, General Manager, Westinghouse Electric Corp. to William Meyer, North Carolina Department of Human Resources. Owner Certification and Additional Information on Storage Areas Closure.

 August 5, 1985. (Reproduced in Appendix B, Item 10.)
- 12. Letter from William Meyer, North Carolina Department of Human Resources, to John Robinson, General Manager, Westinghouse Electric Corp. Approval of Closure. October 15, 1985. (Reproduced in Appendix B, Item 11.)
- 13. Reference 11, Attachment I -- Analytical Results.
- 14. Reference 11, Attachment II Shipping Manifest.
- 15. Reference 5, Attachment II -- Results of Soil Composite Analysis.
- 16. Reference 5, Attachment V -- Well Sampling Results.
- 17. Letter from Joseph Adamovic, Industrial and Environmental Analysts, Inc., to David Daugherty, Westinghouse Electric Corporation. Well Sampling Results. April 23, 1986. (Reproduced in Appendix B, Item 12.)
- 18. Telecon. William Battye, GCA Technology/Division with David Daugherty, Westinghouse Electric Corp. Well Sampling Results. July 14, 1986. (Reproduced in Appendix C, Item 2.)

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

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ture of Material:		
Map:	Computer Disks:	
Photos:	CD-ROM:	
Blueprints:	Oversized Report:	
Slides:	Log Book:	
Other (describe):	to Map	

United States Environmental Protection Agency Office of Emergency and Remedial Response Washington, DC 20460 Publication 9345.1-21 EPA/540/R-96/028 PB96-963509 June 1996

Superfund

SEPA

Superfund Chemical Data Matrix

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SUFERFUND SECTION

nge B-65 DM Data Version: JUN96 DAUG 96

HAZARD RAN AG SYSTEM Hazardous Substance Benchmarks 376 Substances

				_	
Substance Name	CAS Number	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)		
Ammonium picrate	000131-74-8	•••			
Ammonium sulfamate	007773-06-0	1.6E+04*			
Aniline	000062-53-3	•••	1.1E+02*		
Anthracene	000120-12-7	2.3E+04*	•••		
Antimony	007440-36-0	3.1E+01*	•••		
Arsenic	007440-38-2	2.3E+01*	4.3E-01*		
\sbestos	001332-21-4	•••			
Atrazine	001912-24-9	2.7E+03*	2.9E+00*		
Azinphos- ethyl	002642-71-9				
•					
\zinphos- methyl	000086-50-0):	•••		
Vziridine	000151-56-4	• • • • • • • • • • • • • • • • • • • •	•••		
darium '	007440-39-3	3 5.5E+03*	•••		
Harium cyanide	000542-62-1	* *	•••		
Benz(a)anthracene	000056-55-3	3	8.86-01*		
Renzene	000071-43-7	2	2.2E+01*		
Benzene çarbonyl chloride	000098-88-		•••		
Benzidine	000092-87-	5 2.3E+02*	2.8E-03*		
Benzo(a)pyrene	000050-32-	8	8.8E-02*		

^{*} Indicates diff ce between previous version of chemical data (JUN94) and current sion of chemical data (JUN96).
** Indicates new hexardous substance in current version of chemical data (JUN96).

Page B-68 SCDM Data Version: JUN96 19 AUG 96

HAZARD RA G SYSTEM Hazardous Substance Benchmarks 376 Substances

Substance Name		eference Dose Green Conc mg/kg)	Cancer Risk Screen Conc (mg/kg)	
Chlorine cyanide	000506-77-4 3	3.9E+03*		
Chloro-3-methylphenol, 4-	000059-50-7 1	1.6E+05*		
Chloroaniline, p-	000106-47-8 3	3.1E+02*		
Chlorobenzene	000108-90-7	1.6E+03*	•••	
Chlorobenzilate**	000510-15-6	1.6E+03	2.4E+00	
Chloroform	000067-66-3	7.8E+02*	1.0E+02*	
Chloromethane	000074-87-3		4.9E+01*	
Chloromethyl methyl ether	000107-30-2		•••	
Chloromethyloxirane, 2-	000106-89-8	1.6E+02*	6.5E+01*	
Chloronaphthalene, 2-	000091-58-7	6.3E+03*	,	
Chlorophenol, 2-	000095-57-8	3.9E+02*	•••	
Chlorophenyl-phenyl ether, 4-**	007005-72-3		•••	
Chloroprene**	000126-99-8		•••	
Chlorpyrifos	002921-88-2	2.3E+02*	•••	
Chromium	007440-47-3	3.9E+02*	•••	
Chromium(III)	016065-83-1	7.8E+04*	•••	
Chromium(VI)	018540-29-9	3.9E+02*	•••	
Chrysene	000218-01-9		8.8E+01*	

^{*} Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96).

^{**} Indicates new hazardous substance in current version of chemical data (JUN96).

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HAZARD RA. G SYSTEM Hazardous Substance Benchmarks 376 Substances

	_		
Substance Name		Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Cobalt	007440-48-4		
Copper	007440-50-8		
Copper cyanide	000544-92-3	3.9E+02*	
Coumaphos	000056-72-4	•••	•••
Creosote	008001-58-9		•••
Cresol, m-	000108-39-4	3.9E+03*	
Cresol, o-**	000095-48-7	3.9E+03	
Cresol, p-	000106-44-5	3.9E+02*	
Cumene	000098-82-8	3.1E+03*	
Cyanazine	021725-46-2	1.6E+02*	7.6E-01*
Cyanide	000057-12-5	1.6E+03*	•••
	•		
Cyanogen	000460-19-5	3.1E+03*	•••
Cyanogen bromide	000506-68-3	7.0E+03*	•••
Cyclohexane	000110-82-7		•••
Cyclohexanone	000108-94-1	3.9E+05*	
Cyclotrimethylenetrinitriamine	000121-82-4	2.3E+02*	5.8E+00*
DDD	000072-54-8	·	2.7E+00*
DDE	000072-55-9	•••	1.9E+00*
DDT	000050-29-3	3.9E+01*	1.9E+00*

^{*} Indicates dif nce between previous version of chemical data (JUN94) and currer arsion of chemical data (JUN96).
** Indicates no hazardous substance in current version of chemical data (JUN96).

age B-75 CDM Data Version: JUN96 9 AUG 96

HAZARD RANGING SYSTEM Hazardous Substance Benchmarks 376 Substances

_				
S	creen Conc	Cancer Risk Screen Conc (mg/kg)		
060851-34-5		4.0E-05*		
000118-74-1 6	.3E+01*	4.0E-01*		
000087-68-3 1	.6E+01*	8.2E+00*		
000319-84-6	•••	1.0E-01*		
000319-85-7	• • •	3.6E-01*		
000319-86-8	•••	•••		
000077-47-4 5	5.5E+02*	·		
000067-72-1 7	7.8E+01*	4.6E+01*		
000070-30-4 2	2.3E+01*	•••		
000110-54-3	4.7E+03*	•••		
000591-78-6	•••			
000302-01-2		.2.1E-01*		
007647-01-0	•••			
000074-90-8	1.6E+03*	•••		
007783-06-4	2.3E+02*			
000193-39-5	•••	8.8E-01*		
001689-83-4	•••	•••		
007439-89-6		•••		
000078-83-1	2.3E+04*	•••		
	060851-34-5 000118-74-1 6 000087-68-3 1 000319-84-6 000319-85-7 000319-86-8 000077-47-4 5 000070-30-4 6 000110-54-3 6 000591-78-6 000302-01-2 007647-01-0 000074-90-8 007783-06-4 000193-39-5 001689-83-4 007439-89-6	000118-74-1 6.3E+01* 000087-68-3 1.6E+01* 000319-84-6 000319-85-7 000319-86-8 000077-47-4 5.5E+02* 000067-72-1 7.8E+01* 000070-30-4 2.3E+01* 000110-54-3 4.7E+03* 000591-78-6 000302-01-2 007647-01-0 000074-90-8 1.6E+03* 007783-06-4 2.3E+02*	CAS Humber Screen Conc (mg/kg) Screen Conc (mg/kg) 060851-34-5 4.0E-05* 000118-74-1 6.3E+01* 4.0E-01* 000087-68-3 1.6E+01* 8.2E+00* 000319-84-6 1.0E-01* 000319-86-8 000077-47-4 5.5E+02* 000070-30-4 2.3E+01* 000591-78-6 00074-90-8 1.6E+03* 007783-06-4 2.3E+02* 00193-39-5 8.8E-01* 001689-83-4 007439-89-6	

Mazardous Substance Benchmarks 376 Substances

Substance Name	CAS Number	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)	
Isophorone	000078-59-	1 1.6E+04*	6.7E+02*	
KENZENE**	. 0000000000	0		
Kepone	000143-50-	0	•••	
Lead	007439-92-	1		
Lindane	. 000058-89-	9 2.3E+01*	4.9E-01*	
Magnesium !	007439-95-	4	•••	
Malathion	000121-75-	5 1.6E+03*	•••	
Maleic anhydride	000108-31-	6 7.8E+03*	•••	
			. •	
Maleic hydrazide	000123-33-	1 3.9E+04*	•••	
Manganese	007439-96-	5 1.1E+04*	•••	
Mercury	007439-97-	6 2.3E+01*		
Methacrylonitrile	000126-98-	7 7.8E+00*	•••	
Methanol	000067-56	1 3.9E+04*	•••	
Hethomyl	016752-77	·5 2.0E+03*	•••	
Methoxychlor	000072-43	-5 3.9E+02*		
Methyl chlorocarbonate	000079-22	-1	···	
Methyl ethyl ketone	000078-93	-3 4.7E+04*	•••	
Methyl isobutyl ketone	. 000108-10	-1 6.3E+03*	•••	
Methyl methacrylate	000080-62	-6 6.3E+03*	•••	

^{*} Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96).
** Indicates new hazardous substance in current version of chemical data (JUN96).

HAZARD RAN AND SYSTEM Hazardous Substance Benchmarks 376 Substances

Substance Name	Reference Dose Screen Conc CAS Number (mg/kg)	Cancer Risk Screen Conc (mg/kg)
Methylcholanthrene, 3-**	000056-49-5	
Methylene bis (2-chloroaniline), 4,4-	000101-14-4 5.5E+01*	4.9E+00*
. Methylene bromide**	000074-95-3	•••
Methylene chloride	000075-09-2 4.7E+03*	8.5E+01*
Methylenediphenyl diisocyanate, 4,4-	000101-68-8	
Methylnaphthalene, 2-	000091-57-6,	•••
Metrîbuzin	021087-64-9 2.0E+03*	
Mirex	002385-85-5 1.6E+01*	*
Holybdenum**	007439-98-7 3.9E+02	
	,	
W-nitroso-di-n-propylamine**	000621-64-7	9.1E-02
Ŋ-nitrosopiperidine**	000100-75-4	* - • • • • • • • • • • • • • • • • • •
Naphthalene	000091-20-3 3.1E+03*	•••
Naphthylamine**	000091-59-8	
Nickel	007440-02-0 1.6E+03*	•••
Nitric acid	007697-37-2	
Nitric oxide	010102-43-9 *	
Nitrosniline, 2-**	000088-74-4	
·		•
Nitroaniline, 3-**	000099-09-2	*

^{*} Indicates diff ice between previous version of chemical data (JUN94) and current ersion of chemical data (JUN96).
** Indicates new Pazardous substance in current version of chemical data (JUN96).

'age B-83 CDM Data Version: JUN96 19 AUG 96

HAZARD RAN ... NG SYSTEM Hazardous Substance Benchmarks 376 Substances

SOIL PATHWAY

	Substance Name	CAS Number	Reference Dose Screen Conc (mg/kg)	Cancer Risk Screen Conc (mg/kg)		
	Trichlorophenol, 2,4,6-	000088-06-2		5.8E+01*		
	Trichtorophenot, 3,4,5-	000609-19-8		•••		
	Trichlorophenoxyacetic acid, 2,4,5-	000093-76-5	7.8E+02*	•		
	Trichloropropane, 1,2,3-	000096-18-4	4.7E+02*	9.1E-02*		
	Triethanolamine	000102-71-6				
	Trifluratin	001582-09-8	5.9E+02*	8.3E+01*		
	Trinitrobenzene, 1,3,5-	000099-35-4	3.9E+00*	•••		
	Trinitrotoluene	000118-96-7	3.9E+01*	2.1E+01*		
	Tris (2,3-dibromopropyl) phosphate	000126-72-7		•		
	Vanadium	007440-62-2	2 5.5E+02*			
	Vanadium pentoxide	001314-62-1	7.0E+02*			
	Vinyl acetate	000108-05-4	7.8E+04*			
	Vinyl chloride	000075-01-4		3.4E-01*		
		000081-81-2	2 2.3E+01*			
٠.	Xylene, m-	000108-38-3	3 1.6E+05*	•••		
	Xylene, a-	000095-47-6	5 1.6E+05*	•••		
	Xylene, p-	000106-42-3	· · · ·	•••		
	Zinc	007440-66-6	5 2.3E+04*	•••		

^{*} Indicates dif. ance between previous version of chemical data (JUN94) and current ersion of chemical data (JUN96).
** Indicates resion of chemical data (JUN96).

HAZARD RA. : SYSTEM Hazardous Substance Benchmarks 376 Substances

ENVIRONMENTAL DRINKING WATER FOOD CHAIN AWQC/AALAC Reference Dose Cancer Risk Reference Dose Cancer Risk Freshwater Saltwater MCL/MCLG Screen Conc Screen Conc Screen Conc FDAAL. Screen Conc (mg/kg) (mg/kg) (ug/L)(ug/L)⇒stance Name CAS Number (mg/L) (mg/L) (mg/L) (ppm) 2.7E+01* *noxynil 001689-84-5 7.3E-01* . . . tadiene, 1,3-000106-99-0 anol 000071-36-3 3.7E+00* 1.4E+02* ... 000085-68-7 2.7E+02* ylbenzyl phthalate 7.3E+00* · 1.1E+01* yric acid, 4-(2,4-dichlorophenoxy) 000094-82-6 2.9E-01* . . . 1.1E+00* 007440-43-9 5.0E-03 6.8E-01* 1.1E+00 Im i um 1.8E-02* . . . cium** 007440-70-2 . . . 000133-06-2 2.4E-02* 1.8E+02* 9.0E-01* 4.7E+00* ıt an . . . 1.4E+02* baryl 000063-25-2 3.7E+00* . . . 1.6E-01 pazole** 000086-74-8 4.3E-03 6.8E+00* 001563-66-2 4.0E-02 ofuran 1.8E-01* . . . 1.4E+02* on disulfide 000075-15-0 3.7E+00* . . . 9.5E-01* 2.4E-02* on tetrachloride 000056-23-5 5.0E-03 2.6E-02* 6.6E-04* >ophenothion 000786-19-6 007440-46-2 i um. 000075-87-6 2.7E+00* ∍ral 7.3E-02* . . . 3.0E-01 8.1E-02* 2.4E-03* 4.3E-03 4.3E-03* ordane 000057-74-9 2.0E-03 2.2E-03* 6.6E-05* irdane, alpha-** 005103-71-9 . . . ∍rdane, gamma-** 005566-34-7

indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96). Indicates new hazardous substance in current version of chemical data (JUN96).

nge B-47 DM Data Version: JUN96 AUG 96

HAZARD RANKING SYSTEM Hazardous Substance Benchmarks 376 Substances

		CRINKING WATE	२		FOOD CHAIN	ENVIRONMENTAL		
Substance Name	MCL/MCLG CAS Number (mg/L)	Raference Dos Sireen Conc (mg/L)	e Cancer Risk Screen Conc (mg/L)	FDAAL (ppm)	Reference Dos Screen Conc (mg/kg)	e Cancer Risk Screen Conc (mg/kg)	AWQ Freshwater (ug/L)	C/AALAC Saltwater (ug/L)
hlorine cyanide	000506-77-4	1.8E+00*	•••	•••	6.8E+01*		4.0E-03	4.0E-03
:hloro-3-methylphenol, 4-	000059-50-7	7.3E+01*	•••		2.7E+03*	•••	•••	
hloroaniline, p-	000106-47-8	1.5E-01*		•••	5.4E+00*		• • • •	
Ntorobenzene	000108-90-7 1.0E-01*	7.3E-01*	•••		2.7E+01*			•••
hlorobenzilate**	000510-15-6	7.3E-01	3.2E-04		2.7E+01	1.2E-02		
hloroform	000067-66-3 1.0E-01*	3.7E-01*	1.4E-02*	•••	1.4E+01*	5.2E-01*	•••	
.hloromethane	000074-87-3		6.6E-03*	•••		2.4E-01*		
'hloromethyl methyl ether	000107-30-2			•••		•••	• • •	•••
hloromethyloxirane, 2-	000106-89-8	7.3E-02*	8.6E-03*	•••	2.7E+00*	3.2E-01*		
hloronaphthalene, 2-	000091-58-7	2.9E+00*		•••	. 1.1E+02*			•••
hlorophenol, 2-	000095-57-8	1.8E-01*			6.8E+00*			•••
hlorophenyl-phenyl ether, 4-**	007005-72-3	•						
hloroprene**	000126-99-8	•••	• • •	•••	•••	•••	•••	
hlorpyrifos	002921-88-2	1.1E-01*		•	4.1E+00*		4.1E-02	4.1E-02*
:hromium	007440-47-3 1.0E-01	1.8E-01*		•••	6.8E+00*		1.1E+01*	1.1E+01*
ihromium(III)	016065-83-1	3.7E+01*	•••		1.4E+03*	•••	2.1E+02	2.1E+02
Thromium(VI)	018540-29-9	1.8E-01*	•••	•••	6.8E+00*	•••	1.1E+01	1.1E+01*
hrysene	000218-01-9		1.2E-02*	•••	•••	4.3E-01*	•••	٠

^{&#}x27;Indicates defined ence between previous version of chemical data (JUN94) and curr /ersion of chemical data (JUN96).
'* Indicates r azardous substance in current version of chemical data (JUN96).

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e B-48 H Data Version: JUN96 AUG 96

HAZARD RA. SYSTEM Hazardous Substance Benchmarks 376 Substances

ENVIRONMENTAL DRINKING WATER FOOD CHAIN Reference Dose Cancer Risk Reference Dose Cancer Risk AWQC/AALAC MCL/MCLG Screen Conc Saltwater Screen Conc FDAAL Screen Conc Screen Conc Freshwater ostance Name CAS Number (mg/kg) (mg/kg) (ug/L)(ug/L) (mg/L) (mg/L) (mg/L) (ppm) balt 007440-48-4 007440-50-8 1.3E+00 1.2E+01* oper 1.2E+01 000544-92-3 per cyanide 1.8E-01* 6.8E+00* - - -. **knaphos** 000056-72-4 • • • 008001-58-9 osote ·sol, m-000108-39-4 1.8E+00* 6.8E+01* ·sol, o-** 000095-48-7 1.8E+00 6.8E+01 sol, p-000106-44-5 1.8E-01* 6.8E+00* - - - -. - - ene 000098-82-8 1.5E+00* 5.4E+01* nazine 021725-46-2 3.8E-03* 7.3E-02* 1.0E-04* 2.7E+00* nide 5.2E+00* 000057-12-5 2.0E-01 7.3E-01* 2.7E+01* 5.2E+00 nogen 000460-19-5 1.5E+00* 5.4E+01* - - -. nogen bromide 000506-68-3 3.3E+00* 1.2E+02* lohexane 000110-82-7 lohexanone 000108-94-1 1.8E+02* 6.8E+03* . . . lotrimethylenetrinitriamine 000121-82-4 1.1E-01* 4.1E+00* 2.9E-02* . . . 7.7E-04* . . . 000072-54-8 5.0E+00 3.6E-04* 1.3E-02* 000072-55-9 9.3E-03* 2.5E-04* 5.0E+00 . . . 000050-29-3 1.8E-02* 2.5E-04* 5.0E+00 6.8E-01* 9.3E-03* 1.0E-03 1.0E-03

Indicates difference between previous version of chemical data (JUN94) and current version of chemical data (JUN96). Indicates new hazardous substance in current version of chemical data (JUN96).



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Westinghouse Electric Corporation

Electronics, Measurement and Control Divisions

Box 9533 Raleigh North Carolina 27611 (919) 834 5271

16

July 31, 1985

Mr. William Meyer
Head
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

Dear Mr. Meyer:

We have now removed all wastes from our solid waste impoundment in accordance with the closure plan originally submitted to your office February 20, 1985 and clarified in a March 22, 1985 follow up letter.

We began removal of solid waste April 29, 1985 and completed the removal May 30, 1985. Mr. Jerry Rhodes of your office visited the closure site once during the removal and once after the removal was completed.

We sampled and split groundwater samples with Mr. Bob Glaser of your office on April 23, 1985 before the closure began. Attachment I presents the results from that joint sampling.

All wastes were removed from our site and shipped to the Pinewood, South Carolina landfill of GSX Services of South Carolina, Inc. The total amount of cement-fixed sludge, lime sludge, and contaminated soil shipped to GSX was 121 truckloads (4.772,400 pounds). Attachment II contains a copy of the GSX invoice and a copy of the manifests for the first and last loads.

After waste removal, a field composite was taken which consisted of six soil borings into the area affected by the closure. The composite was subjected to leaching tests in accordance with EPA Procedure SW846, Section 2.1.4, Method 1310 and to total metals analysis in accordance with SW846, Method 3050. In addition, tests for the amount of leachable cyanide were done in accordance with SW846. Section 2.1.4, Method 1310 in which deionized water was substituted for acetic acid.

July 31, 1985 Mr. William Meyer Page 2

The test results are presented in Attachment III. It is seen that all EP-Toxicity leachate results were below the drinking water standards provided by the State.

Attachment IV contains the results from the first round of four quarterly groundwater samples which are to be taken after closure as agreed to in the closure plan. We will take the next round of samples in October 1985 and will report the results to you when they become available.

It is our understanding, through earlier discussions with your office, that: (1) our removal of all wastes from the site has eliminated any requirement that we obtain a permit under 10 NCAC 10G.0200; (2) that the site is no longer considered a solid waste disposal site; and (3) that the site is now in compliance with your order of October 23, 1984.

If you need any additional information, please contact David Daugherty at 834-5271.

John S. Robinson, General Manager

1 man

Raleigh Meter Division

Westinghouse Electric Corporation

01270

Attachment I
Results from April 23, 1985
Split-Sampling of Groundwater

May 8, 1985

Mr. David Daugherty Westinghouse Electric Corporation P.O. Box 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-4

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on April 24, 1985.

		Well No. l	Well No. 2	Well No. 3	Well No. 4
		<u></u>	<u> </u>	<u></u>	1101
Copper	mg/l	< 0.02	0.02	< 0.02	< 0.02
Nickel	mg/l	0.05	< 0.03	< 0.03	< 0.03
Chromium	mg/l	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	mg/l	0.02	0.19	0.06	< 0.02

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Schior Chemist

JBA/kbd

Offices and laboratories located in: Essex Junction, Vermont

Research Triangle Park, North Carolina

Mr. David Daugherty Reference: IEA Report No. 230-4

May 8, 1985

WESTINGHOUSE GROUNDWATER WELL DATA

Sampling Date: March 23, 1985

Well I.D.

	No. 1	<u>No. 2</u>	<u>No. 3</u>	No. 4
Well Depth*	25:00	22:50	23:00	25:00
Water Depth Before Pump	17:13	11:77	15:31	18:78
Water Depth After Pump	21:14	19:75	15:12	18:41
Depth of One Well Volume	7:87	10:73	7:69	6:22
Depth from Pumping	4:01	7:98	0:19	0:37
Time Start Pump	12:10	11:40	10:00	9:40
Time of Sample	13:50	13:10	11:45	10:45
Total Time Pumped	1 hr/40 min	1 hr/30 min	1 hr/45 min	1 hr/5 min
Approximate Pump Rate	.75 gal/min	.75 gal/min	.75 gal/min	.75 gal/min
Conductivity & Temperature	90 mgohms	1230 mgohms	720 mgohms	220 mgohms
рН	5:95	6:10	6:20	6:30

^{*} All depths given in feet and decimal feet



North Carolina Department of Human Resources Division of Health Services P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H. State Health Director 919/733-3446

July 16, 1985

Mr. David Daugherty
Westinghouse Electric Corporation
P.O. Box 9533
Raleigh, NC 27611

Dear Mr. Daugherty:

Please find enclosed a copy of the analytical results from the April 23, 1985 groundwater sampling event. If there are any questions please call me.

Sincerely,

Robert Glaser, Geologist

Solid & Hazardous Waste Management Branch

Environmental Health Section

RG/plg

N. C. DEARTMENT OF HUMAN RESOURCES DIVION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH



P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

e Number 67 00319	75963	Field	Sample Number/	733			
Name of Site WEStinak		Site Location Raleigh					
Collected By 6/8ser_	ID#		collected 4/23/8	<i>d</i>			
Type of Sample:			- / - /				
Environmental Co	oncentrate		Comments				
Groundwater	Solid	Well #L					
Surface Water	Liquid						
Soil	\$ludge						
Other	Other						
		CHEMISTRY					
Extractables		al					
Parameter Results mg/l	Parameter	Results mg/1	Parameter	Results mg/l			
Arsenic	Arsenic		Chloride				
Barium	Barium		_ Conductivity				
Cadmium	Cadmium		Copper				
Chromium	Chromium		Fluoride				
Lead	Lead		Iron				
Mercury	Mercury		Manganese				
Selenium	Selenium		Nitrate				
Silver	Silver		— PH				
			Sulfates				
			TDS				
			Zinc				
			TOC				
	•						
•	ORGANIC	CHEMISTRY					
Parameter Results mg/1	Parameter	Results mg/1	Parameter	Results - ()			
Endrin	Toxaphene		PCB's				
Lindane	2,4-D		Petroleum				
Methoxychlor	2,4,5-TP(S		EDB				
VCA None delice	Zacid extr	A None dela	TOX	< 5.0 mg/l Ce-			
	R/W · ·	Nove dele	ul				
			- TOOMS A COMPANY				
MICROBIOLOGY			ADIOCHEMISTRY	ults PCi/1			
Parameter (MF) Coliform Colonies/	100-1-	Parameter Gross Alpha		ults PCi/1			
		Gross Beta					
(MPN) Coliform Colonies	/ TOOMIS .	Gross beta					
							
							
			<u></u> -				
Date Received 41/2/1/85	/6	Ace Reported	5-30	-55-			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0/				
Date Extracted 4-34-85	7 / 5	ate Analized4					
Reported By	real I	ab Number	501529				
	IS WAL	30 1935	•				
	E MAY	<i>≣1</i>					
	W.	STANAGE	•				
DHS 3191 (Revised 2/84)	The A	OLE MAN	·				
Solid and Hazardous Waste			-				

### C. PARTMENT OF HUMAN RESOURCES DITION OF HEALTH SERVICES DI TON OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

e Number 92003195	5963	Field	Sample Number_/	732			
Name of Site Westingha	11.00)	Site Location Raleich					
Collected By 6 (25e)	ID#	Date Collected 4/23/85 Time 1140					
		bace o	011ECCCU 4/2/3/8	5 111110 1170			
Type of Sample:							
- · <b>,</b> · · · · - · ·	oncentrate	well #3	Comments				
Groundwater Surface Water	Solid	WELLERS					
Soil	Liquid Sludge						
Other	Other	<del></del>	***				
		CHEMISTRY					
Extractables		tal					
Parameter Results mg/l	Parameter	Results mg/1	Parameter	Results mg/1			
Arsenic	Arsenic		Chloride				
Barium	Barium		Conductivity				
Cadmium	Cadmium		Copper				
Chromium	Chromium		— Fluoride				
Lead	Lead		Iron Manganese				
Mercury Selenium	Mercury Selenium		- Nitrate				
Silver	Silver	<del></del>	pH				
STIVE		<del></del>	Sulfates				
			TDS				
			Zinc				
			TOC				
	<u> </u>	·					
•	ORGANIC	CHEMISTRY					
Parameter Results mg/1	Parameter	Results mg/l	Parameter	Results mo/1			
Endrin	Toxaphene		PCB's				
Lindane	2,4-D		Petroleum				
Methoxychlor Vone delectes	2,4,5-TP(S	act None delec	EDB TOX.	7111 1 44/2 Com			
1) VEVE PERELECTION	BIN	Vone dele	ted	8644 34 CV			
		_ /	* <u></u> ,				
MICROBIOLOGY		R.A	DIOCHEMISTRY				
Parameter		Parameter		ults PCi/l			
(MF) Coliform Colonies/		Gross Alpha					
(MPN) Coliform Colonies	/100mls	Gross Beta					
	<u> </u>						
				<del></del>			
•							
Date Roceived או עבונג פון עב	AA P	Date Reported	5-30-	-X'5			
<del> </del>	0	<del>-7</del>	X roward	0 0			
Date Extracted 4-24-85 AL		Date Analyzed4	#/P E				
Reported By Styn 5,	real-	Lab Nomber					
	18						
	E MAY 80	1985 🖺					
	( MAY 80	1200 F #					
DHS 3191 (Revised 2/84)	Villa,						
Solid and Hazardous Waste	WAGE	Waling the same of					

#### N. C. DETARTMENT OF HUMAN RESOURCES DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH



P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Number 92.0031959	763	Field Sample Number 1731					
Name of Site Wostinghous	0 ,	Site L	ocation Ralei	oh.			
Collected By Glases	ID#		ollected 4/23/8	1			
Type of Sample:		<del></del>	7-7-				
	ncentrate		Comments				
/Groundwater	Solid	well #	7.				
Surface Water	Liquid						
Soil	Sludge						
Other	Other						
INORGANIC CHEMISTRY							
Extractables Parameter Results mg/1	To: Parameter	Results mg/l	Parameter	Results mg/1			
Arsenic Arsenic	Arsenic	KESUICE ME/I	Chloride	Resource mg/1			
Barium	- Barium		Conductivity				
Cadmium	Cadmium		Copper				
Chromium	- Chromium		- Fluoride				
Lead	Lead		Iron				
Mercury	Mercury		Manganese				
Selenium	Selenium		Nitrate				
Silver	Silver		pH				
			Sulfates				
			TDS Zinc				
~~	<del> </del>	{	TOC				
	ORGANIC	CHEMISTRY					
Parameter Results mg/1	Parameter	Results mg/1	Parameter	Results			
Endrin	Toxaphene		PCB's				
Lindane	2,4-D	.,	Petroleum				
Methoxychlor	2,4,5-TP(S		EDB OX	140.8 mg/s CO-			
I hadden the	A RIVERSITE	16 100 10 10 10	The M	140.0 VI (V			
V Tata ach formatthely, 29	26 5/10	- Work new					
WI CROBIOLOGY	<i>00</i>	D.A	ADIOCHEMISTRY				
MICROBIOLOGY Parameter		Parameter		ults PCi/l			
(MF) Coliform Colonies/1	OOm1s	Gross Alpha		101/1			
(MPN) Coliform Colonies/		Gross Beta					
Date Received 4/24/8534	I والم حي	ate Reported	5-30-8	5			
Date Extracted 4-24-85 820		· -	TOY				
		Date Analyzed 4	F120 145 7720				
Reported By	lead	ab-Númber	301527				
	a possive	S. S					
		`E.					
		HA.					
DHS 3191 (Revised 2/84)	至 、、、 30	105 E					
Solid and Hazardous Waste	# '^^V 30 W		•				

#### N. C. PERARTMENT OF HUMAN RESOURCES DI ION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH



P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

e Number 92000-31959.	63	Field S	Sample Number	1730			
Name of Site 18 ps Timelan	450	Site Location Raleigh					
Collected By Glases	ID#		<del></del> / 7	35 Time /355			
Type of Sample:							
Environmental C  Groundwater  Surface Water  Soil  Other	oncentrate Solid Liquid Sludge Other	well#1	Comments				
•	INORGANIC	CHEMISTRY					
Extractables		tal					
Parameter Results mg/l  Arsenic  Barium  Cadmium  Chromium  Lead  Mercury  Selenium  Silver	Parameter  Arsenic  Barium  Cadmium  Chromium  Lead  Mercury  Selenium  Silver	Results mg/1	Parameter  Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pH Sulfates TDS Zinc TOC	Results mg/l			
Parameter Results mg/l Endrin Lindane Methoxychlor VOA Wore defade	Parameter Toxaphene 2,4-D 2,4,5-TP(S  Acade Strace B/N 11		Parameter PCB's Petroleum EDB TOX	Results			
MT OPPOSITOR OF STATE	·		DIOCHEMISTRY				
MICROBIOLOGY  Parameter  (MF) Coliform Colonies/  (MPN) Coliform Colonies		Parameter Gross Alpha Gross Beta	Res	ults PCi/1			
Date Received 4/24/85.  Date Extracted 4-14-85 8:0  Reported By Amil Consolidate Property States 19:0  DHS 3191 (Revised 2/84)  Solid and Hazardous Waste	A RECEI	Date Reported  Pate Analyzed4  Lab Number  1985	5-30-8	² 5 ⁻			



# STATE LABORATORY OF PUBLIC HEALTH DIVISION OF HEALTH SERVICES N.C. DEFARTMENT OF HUMAN RESOURCES P.D. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

REPORT: E70RSL30

INORGANIC CHEMICAL ANALYSIS

DATE: 05/24/85

__ (SITE

Cita No -

マンわれれて1 ロミロムマ

Field Sample Number: 002080

Name of Site: Westinghouse Elec Meter & Lvit

Type of Sample: ENVIRONMENTAL GROUND

Collected on: Date: 04/23/85 Time: 1110AM Collected By: GLASER

PARAM				MG/L	PARA	M			MG/L
ID	NAME	_REIAO	0	_RESULIS_	IQ_	NAME	REIHD	₽	RESULIS
1005T	ARSENIC	125	<	0.0100	1040	NITRATE	163	<	1.0000
1010T	BARIUM	101		0.3000	1045T	SELENIUM	125	<	0.0050
1015T	CADMIUM	101	<	0.0050	1050T	SILVER	101	<	0.0500
1017	CHLORIDE			9,0000	1052	SODIUM	101		23.0000
1020T	CHROMIUM	101		0.0200	1055	SULFATE	137		6.0000
1022	COPPER	101	<	0.0500	1095	ZINC	101		0.0700
1024	CYANIDE	107	<	0.4000	1925	PH	135		6.3000
1025	FLUORIDE	107	<	0.1000	1926	CONDUCTIVITY	000		210.0000
1028	IRON	101		12.5000	1930	TDS	139		157,0000
1030T	LEAD	. 101	<	0.0300	1010	TOC	000		10.0000
1032	MANGANESE	101		0.5400	·				
1035T	MERCURY	103	<	0.0002					
1036	NICKEL	101	<	0.0500					

Date Received: 04/25/85 Date Reported: 05/20/85 Date Analyzed: 04/25/85

Laboratory Number: 508880 Reported By: Comments: WELL 4

Mildred A. Kerbaugh Director



#### STATE LABORATORY OF PUBLIC HEALTH DIVISION OF HEALTH SERVICES N.C. DEPARTMENT OF HUMAN RESOURCES P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

REPORT: E70RSL30

INDRGANIC CHEMICAL ANALYSIS

DATE: 05/24/85

SITE

Site No.:

92D003195963 Field Sample Number: 002079

Name of Site: Westinghouse Elec Meter & Lvit

Type of Sample: ENVIRONMENTAL GROUND

Collected on: Date: 04/23/85 Time: 1140AM Collected By: GLASER

MG/L PARAM MG/L FARAM ___MEIHOD__RESULIS____ID__NAME__ ___METHOD__RESULIS__ ___ID____NAME____ 1005T ARSENIC 125 < 0.0100 1040 NITRATE 1010T BARIUM 101 0.2000 1045T SELENIUM 1015T CADMIUM 101 < 0.0050 1050T SILVER 163 125 < 0.0050 101 < 0.0500 1052 SODIUM 1055 SULFATE 1095 ZINC 101 49.0000 1017 CHLORIDE 10.0000 101 < 0.0100 60.0000 1020T CHROMIUM 137 101 0.0800 1022 COPPER 101 < 0.0500 1925 PH 135 107 < 0.4000 6.6000 1024 CYANIDE 1926 CONDUCTIVITY 000 630.0000 1025 FLUORIDE 107 < 0.1000 3.3400 102B IRON 1930 TDS 139 414.0000 101 1030T LEAD IO10 TOC 000 101 < 0.0300 18.0000 1032 MANGANESE 0.2000 101 1035T MERCURY 103 < 0.0002 1036 NICKEL 101 0.0500

Date Received: 04/25/85 Date Reported: 05/20/85 Date Analyzed: 04/25/85

Laboratory Number: 508879 Reported By: Comments: WELL 3

Mildred A. Kerbaugh Director

#### STATE LABORATORY OF PUBLIC HEALTH DIVISION OF HEALTH SERVICES N.C. DEPARTMENT OF HUMAN RESOURCES

P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

REPORT: E70RSL30

INORGANIC CHEMICAL ANALYSIS

DATE: 05/24/85

SITE

Site No.:

92D003195963 Field Sample Number: 002078

Name of Site: Westinghouse Elec Meter & Lvit

Type of Sample: ENVIRONMENTAL GROUND

Collected on: Date: 04/23/85 Time: 0135PM Collected By: GLASER

			MG/L	PARA				MG/L
NAME	_AEIHO	D	_RESULIS_	ID_	NAME	TREIHO	$\mathbf{Q}_{-}$	RESULIS
ARSENIC	125	<	0.0100	1040	NITRATE	163		13.5000
BARIUM	101		0.2000	1045T	SELENIUM	125	<	0.0050
CADMIUM	101	<	0.0050	1050T	SILVER	101	<	0.0500
CHLORIDE			29,0000	1052	SODIUM	101		84.0000
CHROMIUM	101		0.0200	1055	SULFATE	137		220.0000
COPPER	101	<	0.0500	1095	ZINC	101		0.0900
CYANIDE	107	<	0.4000	1925	PH	135		6.7000
FLUORIDE	107		0.1300	1926	CONDUCTIVITY	000		1180.0000
IRON	101		6.2000	1930	TDS	139		855.0000
LEAD	101	<	0.0300	1010	TOC	000		22.0000
MANGANESE	101		3.1300					
MERCURY	103	<	0.0002					
NICKEL	101		0.0600					
	ARSENIC BARIUM CADMIUM CHLORIDE CHROMIUM COPPER CYANIDE FLUDRIDE IRON LEAD MANGANESE MERCURY	ARSENIC 125 BARIUM 101 CADMIUM 101 CHLORIDE CHROMIUM 101 COPPER 101 CYANIDE 107 FLUDRIDE 107 IRON 101 LEAD 101 MANGANESE 101 MERCURY 103	ARSENIC 125 < BARIUM 101	NAME	NAME METHOD RESULTS ID  ARSENIC 125 < 0.0100 1040  BARIUM 101 0.2000 1045T  CADMIUM 101 < 0.0050 1050T  CHLORIDE 29.0000 1052  CHROMIUM 101 0.0200 1055  COPPER 101 < 0.0500 1095  CYANIDE 107 < 0.4000 1925  FLUDRIDE 107 0.1300 1926  IRON 101 6.2000 1930  LEAD 101 < 0.0300 I010  MANGANESE 101 3.1300  MERCURY 103 < 0.0002		NAME	NAME

Date Received: 04/25/85 Date Reported: 05/20/85 Date Analyzed: 04/25/85

Comments: WELL 2 Laboratory Number: 508878 Reported By:

Mildred A. Kerbaugh

Director



#### STATE LABORATORY OF PUBLIC HEALTH DIVISION OF HEALTH SERVICES N.C. DEPARTMENT OF HUMAN RESOURCES P.D. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

REPORT: ETORSL30 INORGANIC CHEMICAL ANALYSIS

DATE: 05/24/85

SITE

Site No.:

92D003195963 Field Sample Number: 002077

Name of Site: Westinghouse Elec Meter & Lvit

Type of Sample: ENVIRONMENTAL GROUND

Collected on: Date: 04/23/85 Time: 0155PM Collected By:

PARAM				MG/L	PARA	M			MG/L
ID	NAME	_MEIHOD	2	_RESULIS_	ID	NAME	REIHO	ì	RESULIS
.1005T	ARSENIC	125	<	0.0100	1040	NITRATE	163		1.2000
1010T	BARIUM	101		0,2000	1045T	SELENIUM	125	<	0.0050
1015T	CADMIUM	101	<	0.0050	1050T	SILVER	101	<	0.0500
1017	CHLORIDE			2.0000	1052	SODIUM	101		6.0000
1020T	CHROMIUM	101		0.0100	1055	SULFATE	137	<	1.0000
1022	COPPER	101	<	0.0500	1095	ZINC	101		0.1100
1024	CYANIDE	107	<	0.4000	1925	PH	135		6.2000
1025	FLUORIDE	107	<	0.1000	1926	CONDUCTIVITY	000		82.0000
1028	IRON	101		10.3000	1930	TDS	139		96.0000
1030T	LEAD	101	<	0.0300	1010	TOC	000	<	5.0000
1032	MANGANESE	101		0.2700					
1035T	MERCURY	103		0.0002					
1036	NICKEL	101	<	0.0500					

Date Received: 04/25/85 Date Reported: 05/20/85 Date Analyzed: 04/25/85

Laboratory Number: 508877 Reported By: Comments: WELL 1

Mildred A. Kerbaugh Director

Attachment II

Invoice and Shipping Records for Waste

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sposal of____

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**G\$X Services** of South Carolina, Inc.

_____ Drums of SCA Code __

INVOICE

Per Drum

Per Pound

PO Box 95	Pinewood, SC 29125 (803) 452-5003		DATE RECUL_>WD FROM	5-31-85 Jan Jan	Jan
MANIFEST NUMBER	CUSTOMERS ORDER NO. 48-P531015		WORK ORDER NO. SEE ATTACHE	SHIPPEO VIA	
		RIPTIQI			TOTAL
sposal of	Drums of SCA Code		@ \$ @ \$	Per Drum	\$
sposal of	Drums of SCA Code			Per Drum	

ansportation of 798.00 Per Load _____Hours @ \$___ eight Detention of _____ __ Per Hour 2_386, 20____ Tons @ \$2.13 Per Ton ERCLA/Superfund Tax - -_2_386_20____ Tons @ \$7.50 Per Ton buth Carolina State Hazardous Waste Tax - - ther Charges_____ voice Total ______

sposal of ______ @ \$_____ Per Drum

X 121 Loads

Pounds of SCA Code 156-1105

\$ 274 640 1

155,103.01

96,558.0

5,032.63

17,896.50

voice is Equivalent of _____ ons of Absorbants.

TERMS: Net 10-Service Charge of 115% Per Month (APR of 18% Per Year) On All Accounts Over 30 Days.

.0325

MEST TRUBBLE OF BUELTHIO. RALEIGH, N. C.

121

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	WORK			.0325		MO 21.24		
DATE	THEFTER R	MATTEST	METCHT	DISPOSAL	S G TAX	FED TAX	TRANSCORT	EXTENSION
APRIL /								
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24	45535	2 5	37700	1225, 25				2204.78
20	45537	٤	35320	1147,90			796,00	2115.97
	45358	5	42180				793.CU	2386.87
2ัจ	45539	6	37360	1214,20				2192.09
. * 29	43340	7	23580	1247,35		ag.87		2250.15
3.9	43341	9	35360				-	2117.45
29	43342	9	3554D					2165.22
	43343	20	37500					2200.30
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10	: 2	44:55	112	50240	1242.80	143,40	40.73	798,740	2224,93
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	22	44450	115	0.81.86	1240,95	145.10	40 . 56	790.00	2222.60
		44159	116	36740	1194.05	157.78	59. LS	798.00	2153.95
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	23	64462	1:3	4 34 00	1417.00	153,50	a4, 43	<b>7</b> 98.00	2424.93
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6	23	a2463	120	35300	1147.25	132.38	37.59	799,00	2115.22
0	2.3	daz.c4	12:	35020	1159.15	131.33	37.50	798.00	2304.77
		42445	122	J6940	1290.55	132,53	39.34	758.00	2176.42
	.5	$a_{i}, a_{i}, a_{i}$	£23	41960	1343.70	157.35	44.49	798,00	2340.74
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# South Carolina partment of Health and Environmental Control

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Route 1 Box 255					H.Fac	cility's Phone		
Pinewood S C 29125	<b>l</b> c .c	0070	. 3. 7. 5.	9. 8. 5	: 1			
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Attachment III

Post-Closure Solid Composite Results

July 15, 1985

David Daugherty Westinghouse Corporation P.O. Box 9533 Raleigh, N.C. 27611

Reference: IEA Report No. 230-5

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on a single sample submitted to our laboratory on June 28, 1985.

#### Solid Waste Closure Field Composite

EP-TOX Nickel	mg/l	< 0.03
EP-TOX Chromium	mg/l	< 0.03
EP-TOX Cadmium	mg/l	< 0.01
EP-TOX Lead	mg/l	< 0.005
EP-TOX Copper	mg/l	< 0.02
EP-TOX Cyanide	mg/l	0.15
Total Nickel	mg/kg	42
Total Chromium	mg/kg	210
Total Cadmium	mg/kg	62
Total Lead	mg/kg	60
Total Copper	mg/kg	320

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/sbm

Offices and laboratories located in: Essex Junction, Vermont

Research Triangle Park, North Carolina

Attachment IV

Results of First Quarterly Post-Closure

Groundwater Sampling

July 9, 1985

Mr. David Daugherty Westinghouse Electric Corporation P.O. Box 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-6

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on July 1, 1985.

		Well <b>#</b> l	Well #2	Well #3	Well #4
Copper	mg/l	0.06	0.14	0.12	0.09
Nickel	mg/l	< 0.03	0.06	< 0.03	< 0.03
Chromium	mg/l	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/l	< 0.1	< 0.1	< 0.1	< 0.01
Cadmium	mg/l	< 0.01	0.03	0.02	< 0.01
Cyanide	mg/l	< 0.02	0.19	< 0.02	< 0.02

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/sbm

Mr. David Daugherty Reference: IEA Report # 230-6 July 16, 1985

#### WESTINGHOUSE GROUNDWATER WELL DATA

Sampling Date: July 1, 1985

Well I.D.

	<u>No. 1</u>	<u>Ro. 2</u>	No. 3	No. 4
Well Depth	25.00	22.50	23.00	25.00
Water Depth Before Pump	*	13.22	16.10	20.00
Water Depth After Pump		22.00	22.70	25.00
Depth of One Well Volume		9.28	6.90	5.00
Decrease from Pumping		8.78	6.60	5.00
Time Start Pump		11:05	12:45	11:30
Time of Sample	****	12:15	13:50	13:00
Total Time Pumped		1.7hrs.	1.7hrs.	1.5hrs.
Approximate Pump Rate, gal/min	.75	.75	.75	.75
Conductivity, µmhos/cm	110	1180	500	200
рН	6.5	6.6	6.6	6.5

All depths given in feet

All samples taken with bailer

^{*}INSUPFICIENT WATER TO PUMP, WELL EVACUATED WITH BAILER.

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Department of Human Resources Division of Health Services Solid and Hazardous Waste Management Branch

#### APPLICATION FOR CHANGE IN CLASSIFICATION UNDER RCRA

Date: 8/7/85

Company Name: NESTINGHOUSE ELECTRIC

Company Address: 2728 NORTH BLVD.

RALEIGH, NC 27611

EPA ID No: NC DOO 3195963

Mr. O. W. Strickland, Head Solid & Hazardous Waste Management Branch Division of Health Servic Post Office Box 2091 Raleigh, N.C. 27602

Dear Mr. Strickland:

Our Company requests the following change in its classification under RCRA (check all that apply):

Add As	Delete As	
X		Generator
		Transporter
	$\boxtimes$	Treater
	$\boxtimes$	Storer
		Disposer
		Small Generator

The reason for this request is:

# WE NO LONGER CONDUCT TREATMENT OR STORAGE AND HAVE CLOSED THE TREATMENT AND STORAGE AREAS UNDER AN APPROVED CLOSURE PLAN.

NOTES: 1) Be specific. Give all pertinent information. This may be a change in your process; a change in your handling procedures; new analyses, or the like.

2) This is not a delisting petition with respect to a listed waste.

- 3) If you are requesting deletion as a treater, storer, or disposer, our branch will immediately institute steps to terminate your interim status. The termination process will include a public notice in your local paper to the effect that interim status has been terminated for this plant. Thus, in this case we must insist that your request be signed by a major corporate officer.
- 4) If this request involves small generator status, it must include an accurate statement of your present and anticipated waste generation. This is necessary because changes in the small generator definition are expected. (Attach an additional sheet.)

If your request would remove your plant from the regulated system, but you wish to retain an EPA ID Number, please give your reasons.

I understand that my company must supply information about any changes in its operations which might change its status again to our office on its own initiative.

I certify that the information supplied is accurate and correct to the best of my knowledge and belief.

I am authorized to make this request on behalf of my company at the location give. (Refer again to notes 3 and 4 before signing.)

Name (printed or typed): John S. Robinson

Signature:

Company Nitle GENERAL MANAGER

RALEIGH METER DIVISION
WESTINGHOUSE ELECTRIC CORPORATION

#### ATTACHMENT I

## Sampling Results for Closure of Hazardous Waste Treatment & Storage Area

SAMPLE ID	EP-TOX Copper mg/1	EP-TOX Nickel mg/l	EP-TOX Cadmium mg/l	EP-TOX Chromium mg/1	EP-TOX Lead mg/1
Flat Area Soil Composite #1	0.07	0.07	< 0.02	< 0.02	< 0.1
Flat Area Soil Composite #2	0.15	0.06	< 0.02	< 0.02	< 0.1
Tank Wall Sample	0.03	< 0.01	< 0.02	0.09	< 0.1

SAMPLE ID	Total Copper mg/kg	Total Nickel mg/kg	Total Cadmium mg/kg	Total Chromium mg/kg	Total Lead mg/kg
Flat Area Soil Composite #1	250	. 44	7.5	58	31
Flat Area Soil Composite #2	280	40	9.0	62	19
Tank Wall Sample	130	8.5	1.0	170	8.5

	,	Cyanide	Leached in µg/1	DI	Water
Flat Area So Composite #1			100		
Flat Area So Composite #2			240		
Tank Wall Sa	ample		50		

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Attachment II
Shipping Manifests for Hazardous Waste Closure

and E	ivironmer	ıtal Co	ntro		19 16		14 milia	yat (134-35),
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	N LCIDLOLOL311	<u> 1915191613</u>			of	1 Law, t	out is	by State 1 m.
J. Generator's Name and Mailing Addra WESTINGHOUSE ELECTRIC CORP.					A.Sig	te Manifest (	Эосить	nt Number
2728 North Blvd.								<u> </u>
				•	8.Sta	te Generator	\$ 1D	
RALEIGH, NC 27604 Generator's Phone ( 919) 834- 5. Transporter 1 Cumpany Name	5271 6.	US EPA IC	Numbe		C 21.	to Transporter	'- (Ö	
WILLMS TRUCKING								3) 767-3333
7. Transporter 2 Company Name	LSC 1	D. 07 1 31 7 US EPA 10			E. Sta	ta Transporter	s ID	13) /6/-3333
	1				۱	nsporter's Pho		<del></del>
9 Designated Facility Name and Site Ad	idress 10.	US EPA ID	Numbe	r .	G.Sia	te Facility's II	)	
GSX SERVICES INC.								
ROUTE 1, BOX 255			•		H.Fac	ility's Phone		<del>, ,</del>
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11. US DOT Description (Including Proper SI	noning Name. Hazard (	Class and ID No	umber	12.Conta	mers	13. Total	14 Unit	t,
	mpping to me, meeting			No.	Туре	Quantity	_หะงง	Waste No.
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J. Additional Descriptions for Materials (	isted Above				K.Har	ndling Codes to	(Waste	s Listed Abova
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ь. , , , , , , , , , , , , , , , , , , ,	d.    -	1	-1 .	·]]				
15 Second Manalina Instrument								
15. Special Handling Instructions and Add	Nonsi iniormation							
WORK ORDER NUMBER GSX44470								•
TYPE OF CONTAINER: Cement NA9189	mixer used for	r mixing H	azard	lous W	aste	, Solid N.	.0.\$.	, ORM-E,
16. GENERATOR'S CERTIFICATION: There	by declare that the cont	ents of this cons	nemnai	tare fully	and a	ccurately dosci	ibiid	
<ul> <li>above by proper shipping name and are cla</li> </ul>	saified, packed, marked	i, and labeled, a	nd are in	allrespe	icts in p	proper condition		•
transport by highway according to applical	ole international and na	ational governm	entai re	guiations	and	State (avs.	F	Date
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# South Carolina Department of Health and Environmental Control



UNIFORM HAZARDOUS	11. Generator's US EPA ID No.	Menilest umant No.	2. Page		tion in	the sheet and
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2728 North Blvd Raleigh N. C 27604			B.State (	geuntelor, r	10 0	
4. Generator's Phone ( 919) 834- 5. Transporter 1 Company Name	6. US EPA ID Num	ber		ransporter'		
Bryson Environmental	Si Ci Di 010 18 12 12 13		D.Transpo	ransporter	08)	3)796-6408
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9. Designated Facility Name and Site A		ber ,	G.State F	acilly's 10		
Route 1 Box 255		}	H.Facility'	Phone		بنعد الوالي بالمريو يمسو
Pinewood S.C. 29125	S, C, D, O, 7, O, 3, 7, 5	الرجوسات فيسالوه فيسالوه		452-500	,	
11. US DOT Description (Including Proper S	hipping Name, Hezard Class, and ID Number	12.Conta	iners	13. Total	14. Unit	World He
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Waste, Poisonous Solid, N.	D.S., Poison B, UN2811	15,7	D,H 3	111315		
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16. Special Handling Instructions and Add	tional information				Tegrania i	
Work Order # 46016						
8. GENERATOR'S CERTIFICATION:There	by declare that the contents of this consignme	nt are Jully	nd accura	ely describe	d	er alberter
shove by proper shipping name and are cla transport by highway according to applicat	ssilied, packed, marked, and labeled, and ere i ile international and national governmental r	n all respec egulations :	ts in proper and , State	condition for Laws.	ا 10 (ا	Companie
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Henry V. Skinner, Jr.	Hempl. S	Bens	un f	7 -	<u> </u> 0	16 12 17 18 1
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	n men en		الساء،			1100
Facility Owner or Operator: Certification of	if receipt of hazardous materials covered by	this manif	Hat HACODI	as noted in	V.	
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was a second of the second		··			إجاج	

Attachment III
Certification of Closure

July 18, 1985

William L. Klotz, PE ChemEnco, Inc. P.O. Box 13363 Research Triangle Park, NC 27709

Westinghouse Electric Co.
Raleigh Plant
Electronics Measurement and Control
Business Unit
2728 North 8lvd.
P.O.Box 9533
Raleigh, N.C. 27604

#### Dear Sirs:

This letter is to confirm and provide certification for closure of your hazardous waste treatment facility, consisting of wastewater sludge treatment tanks, mixer, and associated piping, in accordance with the Westinghouse closure plan dated May 16, 1984.

I have conducted site visits during cleanup, reviewed shipping manifests for the materials involved, and reviewed required analytical results for samples at the test site. EP toxicity tests nowhere indicated a leachable contaminants level greater than 10 times drinking water standards.

Sincerely,

William L. Klotz, PE NC Registration No. 9532



Westinghouse Electric Corporation Energy Metering and Control Division



Box 9533 RaleIgh North Carolina 27811 (919) 834 5271

May 8, 1986

23

Jerry Rhodes
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602

Dear Mr. Rhodes:

Attached is a copy of the Fourth Quarterly groundwater

sampling done under our solid waste closure plan.

David Daugherty

Sr. Manufacturing Engineer

Enc.



## Industrial & Environmental Analysts, Inc.

P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919

April 23, 1986

Mr. David Daugherty Westinghouse Electric Corporation P.O. Box 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-39

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on April 16, 1986.

		Well #1	Well #2	Well #3	Well #4
Copper	mg/L	<0.02	<0.02	<0.02	0.12
Nickel	mg/L	<0.03	<0.03	<0.03	<0.03
Chromium	mg/L	<0.03	<0.03	<0.03	<0.03
Lead	mg/L	<0.1	<0.1	<0.1	<0.01
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01
Cyanide	mg/L	<0.04	0.14	<0.04	<0.04

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/sbm

Offices and laboratories located in: Essex Junction, Vermont Rosporch Trippola Park, No.

Research Triangle Park, North Carolina

#### WESTINGHOUSE GROUNDWATER WELL DATA

Sampling Date: April 15, 1986		.D.		
	<u>No. 1</u>	<u>No. 2</u>	<u>No. 3</u>	No. 4
Well Depth	25.00	22.50	23.00	25.00
Water Depth Before Pump (Feet)	23.71	16.87	22.35	24.13
Water Depth After Pump (Feet)	25.00	•••-	23.00	25.00
Depth of One Well Volume (Feet)	1.29	5.63	0.65	0.87
Decrease from Pumping (Feet)	1.29	5.63	0.65	0.87
Time Start Pump		10:00		
Time of Sample	12:25	11:20*	13:21	13:45
Total Time Pumped	Bailed	1 Hr.20 min.	Bailed	Bailed
Approximate Pump Rate	N/A	500 ml/min.	N/A	N/A
Conductivity, µhmos/cm	170	1150	450	230
рН	6.7	6.4	6.3	6.5

^{*21} minute recharge allowed.

All depths given in feet.

All samples taken with bailer.



Westinghouse **Electric Corporation**  Energy Metering and Control Division

Box 9533 Raleigh North Carolina 27811 (919) 834 5271

January 21, 1986

22



Mr. Bob Glaser Solid & Hazardous Waste Management Branch P. O. Box 2091 Raleigh, North Carolina 27602-2091

Dear Mr. Glaser:

Attached are our results for the quarterly well sampling done January 6, 1986.

Yours truly,

Sr. Manufacturing Engineer

January 13, 1986

David Daugherty Westinghouse Electric Co. P.O. Box 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-22

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on five samples submitted to our laboratory on January 7, 1986.

Please see the attached sheet for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic Senior Chemist

JBA/abm

Enclosure

January 13, 1986 IEA REPORT NO. 230-22

•		Well #1A	Well #1	We11 #2	Well #3	We11 #4
Bromodichloromethane	µg/L	< 10	< 10	< 10	< 10	< 10
Bromoform	ug/L	< 10	< 10	< 10	< 10	< 10
Bromomethane	ug/L	< 10	< 10	< 10	< 10	< 10
Carbon tetachloride	µg/L	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	μg/L	< 10	< 10	< 10	< 10	< 10
Chloroethane	ug/L	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	µg/L	< 10	< 10	< 10	< 10	< 10
Chloroform	µg/L	< 10	< 10	< 10	< 10	< 10
Chloromethane	μg/L	< 10	< 10	< 10	< 10	< 10
Dibromochloromethane	μg/L	< 10	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene	pg/L	< 10	< 10	< 10	< 10	< 10
1,3-Dichlorobenzenc	ug/L	< 10	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	µg/L	< 10	< 10	< 10	< 10	< 10
Dichlorodifluormethane	ug/L	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	μg/L	< 10	< 10	< 10	< 10	< 10
1,2-Dichloroethane	ug/L	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	µg/L	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/L	< 10	< 10	< 10	< 10	< 10
1,2-Dichloropropane	µg/L	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	µg/L	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropene	μg/L	< 10	< 10	< 10	< 10	< 10
Methylene chloride	µg/L	< 10	< 10	< 10	< 10	< 10
1,1,2,2-Tetrachloroethane	ug/L	< 10	< 10	< 10	< 10	< 10
Tetrschloroethene	μg/L	< 10	< 10	57	< 10	< 10
1,1,1-Trichloroethane	ug/L	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	µg/L	< 10	< 10	< 10	< 10	< 10
Trichloroethene	μg/L	< 10	< 10	61	12	< 10
Trichlorofluoromethane	μg/L	< 10	< 10	< 10	< 10	< 10

January 15, 1986

David Daugherty Westinghouse Electric Co. 2728 North Blvd. P.O. Box 9533 Raleigh, NC 27604

Reference: IEA Report No. 230-21

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on five samples submitted to our laboratory on January 6, 1986.

		<u>We11 #1A</u>	Well #1	Well #2	Well #3	Well #4
Copper	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chromium	mg/L	0.05	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.1	< 0.1	< n.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	mg/L	< 0.02	< 0.02	0.10	< 0.02	< 0.02

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/sbm

Offices and laboratories located in Essex Junction, Vermont Research Triangle Park, 1

Research Triangle Park, North Carolina



Westinghouse Electric Corporation Energy Metering and Control Division

Box 9533 Raleigh North Carolina 27611 (919) 834 5271

December 19, 1985

Mr. Bob Glaser Solid & Hazardous Waste Management Branch P. O. Box 2091 Raleigh, North Carolina 27602-2091



Dear Mr. Glaser:

We have completed Well #1A as a replacement for Well #1 in accordance with W. L. Meyer's letter of 10/25/85. We will be sampling all four original wells plus the replacement well January 6, 1986. If your office wants to split samples at this time you can contact me at 834-5271.

I have enclosed some volatiles sampling results we did on these wells.

Yours truly,

David Daugherty

Sr. Manufacturing Engineer

#### VOLATILE FRACTION

A DEC 20 IOSE OF

CLIENT SAMPLE NO. Well #1 10/24/85 SAMPLE

IEA SAMPLE NO. 230-10-1

NUMBER	COMPOUNDS	DETECTION LIMIT (µg/L)	CONCENTRATION (µg/L)
1	ACROLEIN	100	BDL*
2	ACRYLONITRILE	100	$\mathtt{BDL}$
3	BENZENE	10	BDL
4	Bis(CHLOROMETHYL) ETHER	10	BDL
5	BROMODICHLOROMETHANE	10	BDL
6	BROMOFORM	10	BDL
7	BROMOMETHANE	10	BDL
8	CARBON TETRACHLORIDE	10	$\mathtt{BDL}$
9	CHLOROBENZENE	10	BDL
10	CHLOROETHANE	10	BD1.
<b>1</b> 1	2-CHLOROETHYL VINYL ETHER	· 10	BDL
1.2	CHLOROFORM	10	BDL
$\blacksquare_{13}$	CHLOROMETHANE	10	BDL
14	DIBROMOCHLOROMETHANE	10	BDL
15	DICHLORODIFLUOROMETHANE	10	BDL
16	1,1-DICHLOROETHANE	10	BDL
17	1,2-DICHLOROETHANE	10	BDL
18	1,1-DICHLOROETHYLENE	10	BDL
19	trans-1,2-DICHLOROETHYLENE	10	BDL
20	1,2-DICHLOROPROPANE	10	BDL
21	1,3-DICHLOROPROPENE	10	BDL
22	ETHYLBENZENE	10	BDL
23	METHYLENE CHLORIDE	10	BDL
24	1,1,2,2-TETRACHLOROETHANE	10	BDL
25	1,1,2,2-TETRACHLOROETHENE	10	BDL
26	TOLUENE	10	$\mathtt{BDL}$
27	1,1,1-TRICHLOROETHANE	10	17.
28	1,1,2-TRICHLOROETHANE	10	BDL
29	TRICHLOROETHYLENE	10	BDL
30	TRICHLOROFLUOROMETHANE	10	BDL
31	VINYL CHLORIDE	10	BDL

*BDL - BELOW DETECTION LIMIT

October 10, 1985 IEA REPORT NO. 230-7

## 10/7/85 SAMPLES

		Well #1	Well #2	Well #3	Well #4
Bromodichloromethane	μg/L	< 10	< 10	< 10	< 10
Bromoform	μg/L	< 10	< 10	< 10	< 10
Bromomethane	μg/L	< 10	< 10	< 10	< 10
Carbon tetrachloride	µg/L	< 10	< 10	< 10	< 10
Chlorobenzenc	µg/L	< 10	< 10	< 10	< 10
Chloroethane	μg/L	< 10	< 10	< 10	< 10
2-Chlorocthylvinyl ether	µg/L	< 10	< 10	< 10	< 10
Chloroform	$\mu g/L$	< 10	< 10	< 10	< 10
Chloromethane	µg/L	< 10	< 10	< 10	< 10
Dibromochloromethane	μg/L	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene	μg/L	< 10	< 10	< 10	< 10
l,3-Dichlorobenzene	μg/L	< 10	< 10	< 10	< 10
l,4-Dichlorobenzene	μg/L	< 10	< 10	< 10	< 10
Dichlorodifluormethane	µg/L	< 10	< 10	< 10	< 10
l,l-Dichloroethane	µg/L	< 10	< 10	< 10	< 10
1,2-Dichloroethane	µg/Ľ	< 10	< 10	< 10	< 10
1,1-Dichloroethene	µg/L	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	μg/L	< 10	< 10	< 10	< 10
l,2-Dichloropropane	μg/Ľ	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	μg/L	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropene	µg/L	< 10	< 10	< 10	< 10
Methylene chloride	μg/L	< 10	< 10	< 10	< 10
1,1,2,2-Tetrachloroethane	μg/L	< 10	< 10	< 10	< 10
Tetrachloroethene	µg/L	< 10	22	< 10	< 10
l,1,1-Trichloroethane	µg/L	56	< 10	< 10	39
l,1,2-Trichloroethane	µg/L	< 10	< 10	< 10	< 10
Trichloroethene	µg/L	< 10	33	< 10	< 10
Trichlorofluoromethane	μg/L	< 10	< 10	< 10	< 10





Westinghouse Electric Corporation Electronics. Measurement and Control Divisions

Box 9533 Raleigh North Carolina 27611 (919) 834 5271

20

October 18, 1985

Mr. William Meyer, Head Solid and Hazardous Waste Hanagement Branch Environmental Health Section Division of Health Services P. O. Box 2091 Raleigh, NC 27602-2091

Dear Mr. Meyer:

As you are aware, we have completed the initial phase of our solid waste closure plan of February 20, 1985 by removing all wastes to the secure landfill in Pinewood, South Carolina. We are now taking quarterly samples from four groundwater wells. By this letter, we are requesting your permission to move Well No. 1 approximately 50 feet from its current location.

The four wells were originally placed in a down-gradient arc of about 120° around the waste site. This resulted in Well No. 1 being placed outside the plant security fence where it interferes with future use of the property. In five samples over the last 10 months, Well No. 1 has shown no groundwater contaminants from the waste site. (See Attachment #1) We propose to replace this well with a new one at the same level in the water table, but closer to where the solid wastes were located. We will remove the casing and plug existing Well No. 1. The other three wells would not be changed. Figure 1 shows the location and construction of our proposed well.

Replacement of Well No. 1 with a new well which is screened at the same depth in the water table, and which is closer to the waste site, will increase the likelihood of detecting any contaminants which might have originated from the waste site. Thus, we believe that this change will strengthen the monitoring program while allowing us to bring all the wells inside our fence.

We would like to make this change immediately. May we have your reply as quickly as possible?

John S. Robinson, General Manager

Raleigh Meter Division

0127L/WP

### ATTACHMENT 1

WELL SAMPLING RESULTS





### Industrica & Environmental Analysts, Inc. P.O. Box 12042 • Research Triangle Park, NC 27709 • 919-467-9919

October 10, 1985

David Daugherty
Westinghouse Electric Corp.
2728 North Blvd.
P.O. Box 9533
Raleigh, NC 27604

OCT 21 1985

Reference: IEA Report No. 230-7

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on October 7, 1985.

		Well #1	Well #2	Well #3	Well #4
Copper	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	mg/L	< 0.03	0.04	< 0.03	< 0.03
Chromium	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.01	0.01	< 0.01	< 0.01
Cyanide	mg/L	< 0.02	0.10	< 0.02	< 0.02
		\			

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

Enclosures

JBA/sbm



#### WESTINGHOUSE GROUNDWATER WELL DATA

Sampling Date: October 7, 1985	Well I.D. No.					
	No.1	No.2	No.3	No.4		
Well Depth	25.00	22.50	23.00	25.00		
Water Depth Before Pump	20.59	15.06	18.24	, 21.84		
Water Depth After Pump	21.58	18.26	19.04	2.2		
Decrease from Pumping	0.99	3.20	0.80	1.75		
Time Start Pump	10:30	10:55	13:50	13:55		
Time of Sample	11:35	13:35	15:15	15:30		
Total Time Pumped	1.1 hrs.	2.7 hrs.	1.4 hrs.	1.6 hrs.		
Approximate Pump Rate at beginning, gal/min	.75	.75	.75	.75		
Conductivity, pmhos/cm	74.6	1130	430	220		
рН	6.1	6.6	6.6	6.4		

All depths are given in feet



### Industrial & Environmental Analysts, Inc.

P.O. Box 12542 • Research Triangle Park, NC 2009 • 919-467-9919



July 9, 1985

Mr. David Daugherty Westinghouse Electric Corporation 2.0. Eax 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-6

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on July 1, 1985.

		Well #1	Well #2	Well #3	17-3.1 <i>2</i> 7
	•	Merr &r	MGII AZ	well +2	Well #4
Copper	mg/1	0.06	0.14	0.12	0.09
Nickel	mg/l	< 0.03	0.06	< 0.03	< 0.03
Chromium	mg/1	< 0.03	< 0.03	< 0.03	< 0.03
lest	⊐\$/l	< 0.1 ⋅	< 0.1	< 0.1	< 0.01
Cadbiom	⊡g/l	< 0.01	0.03	0.02	< 0.01
Cyamide	mg/l	< 0.02	0.19	< 0.02	< 0.02

Wery truly yours,

Work th B. Adamovic Janisa Chemist

JEANERS

Offices and taparatalles located in Essex Junction, Vermant

Research Theorgie Fairl, No in Coloima

the David Daugherty Betweeners This second 1 230 o Between

#### WESTINGHOUSE GROUNDWATER WELL DATA

#### Sampling Date: July 1, 1985

Well I.D.

,	No. 1	<u>No. 2</u>	No. 3	No. 4
Well Deprh	25.00	22.50	23.00	25.00
Water Depth Bulaic Pump	*	13.22	16.10	°20,0 <b>0</b>
Water Depth After Dump		22.00	22,70	25.
hepth of One Well Volume		9.28	6.90	5.00
Decrease from Pomping		8.78	6.60	5.00
Time Start Pump		11:05	12:45	11:30
Time of Sample		12:15	13:50	13:00
Total Time Pumped		1.76rs.	l.7hrs.	1.5tms.
Approximate Pump Rate, gal/min	.75	.75	.75	.75
Conductivity, pushou/cm	110	1180	500	200
pil .	6.5	6.6	6.6	6.5

All depths given in feet

All samples taken with bailer

MINSUPPICIENT NATER TO PUMP, WELL EVACUATED WITH BAILER.





#### STATE LABORATORY OF FUGLIC HEALTH DIVISION OF HEALTH SERVICES N.C. DEPARTMENT OF HUMAN RESOURCES

P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

REPORT: E70RSL30

INDEGANIC CHEMICAL ANALYSIS

DATE: 05/24/85

SITE

Site No.:

92D003195963 Field Sample Number: 002077

Name of Site: Westinghouse Elec Meter & Lvit

Type of Sample: ENVIRONMENTAL GROUND

Collected on: Date: 04/23/85 Time: 0155FM Collected By: GLASER

_	PARAM		*****		MG/L	FARA!	1			MG/L
	IQ	NAME	MEIHOD		_RESULIS_	IQ		TREIHO	Q	EESULIS
	1005T	ARSENIC	125	<	0.0100	1040	NITRATE	163		1.2000
	1010T	BARIUM	101		0.2000	1045T	SELENIUM	125	<	0.0050
	10157	CADMIUM	101	<	0.0050	1050T	SILVER	101	<	0.0500
	1017	CHLORIDE			2.0000	1052	SODIUM	101		6.0000
	.1020T	CHROMIUM	101		0.0100	1055	SULFATE	137	<	1.0000
	1022	COPFER	101	<	0.0500	1095	ZINC	101		0.1100
	1024	CYANIDE	107	<	0.4000	1925	F'H	135		6.2000
	1025	FLUORIDE	107	<	0.1000	1926	CONDUCTIVITY	000		82.0000
	1028	IRON	101		10.3000	1930	TDS	139		96.0000
	1030T	LEAD	101	<	0.0300	I010	TOC	000	<	5.0000
	1032	MANGANESE	101		0.2700					
	10357	MERCURY	103		0.0002					
	1035	NICKEL	101	<	0.0500					

Date Received: 04/25/85 Date Reported: 05/20/85 Date Analyzed: 04/25/85 Laboratory Number: 508877 Reported By: Comments:

Mildred A. Kerbaugh Director

# N. C. DEPARTMENT OF HUMAN RESOURCES DIVISION OF HEALTH SERVICES STATE LABORATORY OF PUBLIC HEALTH



P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Number 92000319598	6.3	Field	Sample Number /	730
Nome of Site 12 esting for		ocation Ralpi		
Collected By Glaser	ID#	<del></del>	Collected 4/23/8	
Type of Sample:			7	
	oncentrateSolid _ LiquidSludgeOther	well.#1	Comments	
·	INORGANIC	CHEMISTRY		
Extractables		tal		72
Parameter Results mg/l  Arsenic  Barium  Cadmium  Chromium  Lead  Mercury  Selenium  Silver  Farameter Results mg/l	Parameter  Arsenic  Barium  Cadmium  Chromium  Lead  Mercury  Selenium  Silver  ORGANIC  Parameter	CHEMISTRY Results mg/l	Parameter  Chloride Conductivity Copper Fluoride Iron Manganese Nitrate pH Sulfates TDS Zinc TOC  Parameter	Results mg/l
Endrin Results mg/1	Toxaphene	Results mg/l	PCB's	Results -
Lindane	2,4-D		Petroleum	
Methoxychlor  None delede	2,4,5-T2(S 1 20,0 05, 05, 0 1 8/N "	ilvex) 4 None ditto None detect	EDB TOX	43.2 48 CD-
MICROBIOLOGY		R.	ADIOCHEMISTRY	
Parameter		Parameter		ilts PCi/l
(MF) Coliform Colonies/: (MFN) Coliform Colonies/	!	Gross Alpha Gross Beta	2	
Date Received 4/24/85.  Date Extracted 4-14-55 B.O.  Reported by Am S. n.O.	CECE!	Date Reported Analyzed4 Ab Namber 1935	5-30-5. [25]85 773 [50]1 <b>5</b> 26	5
DHS 3)91 (Revised 2/84)	Caye	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		



## Industrial & Environmental Analysts, Inc. P.O. Box 125 • Research Triangle Park, NC 27 • 919-467-9919

May 8, 1985



Mr. David Daugherty Westinghouse Electric Corporation P.O. Tox 9533 Ralsigh, NC 27611

Reference: TEA Report No. 230-4

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on April 24, 1985.

	•	Well No. 1	We 11, No. 2	Well No. 3	Well No. 4
Copper Nickel Chromium Lead Cadmium Cyanide	mg/l mg/l mg/l mg/l mg/l mg/l	< 0.02 0.05 < 0.03 < 0.1 < 0.01 0.02	0.02 < 0.03 < 0.03 < 0.1 < 0.01 0.19	< 0.02 < 0.03 < 0.03 < 0.1 < 0.01 0.06	< 0.02 < 0.03 < 0.03 < 0.1 < 0.01 < 0.02

Very truly yours,

dantir Chemist

JBA. 353

urfices and lazararanes localed in Essex Junction. Vermont Research Triangle Park, North Carolina 

#### WESTINGHOUSE GROUNDWATER WELL DATA

Sampling Date: March 23, 1985.

Well I.D.

	<u>Nn. 1</u>	<u>No. 2</u>	<u>llo. 3</u>	$\frac{80.4}{}$
- Well Deprh≎	25:00	22:50	. 23:00	25:00
Water Depth Refore Pump	17:13	11:77	15:31	18:78
Mater Depth After Pump	21:14	19:75	15:12	18:41
Depth of One Well Volume	7:87	10:73	7:69	6:22
Depth from Pumping	4:01	7:98	0:19	0:37
Time Start Pump	12:10	11:40	10:00	9:40
Time of Sample	13:50	13:10	11:45	10:45
Total Time Pumped	Elir/40 min	1 hr/30 min	1 hr/45 min	I hr/5 min
Approximate Pump Rate	.75 gal/min	.75 gal/min	.75 gal/min	.75 gal/min
Conductivity & Temperature	90 mgolims	1230 mgohms	720 mgolims	220 mgolima
Pit	5:95	6:10	6:20	6:30

 $[\]boldsymbol{z}$  All depths given in feet and decimal feet





## Industrial & Environmental Analysts, Inc. P.O. Box 12: • Research Triangle Park, NC 2009 • 919-467-9919

January 24, 1985



Mr. David Daugherty Westinghouse Electric Corporation P. O. Box 9533 Raleigh, NC 27611

Reference: IEA Report No. 230-3

Dear Mr. Daugherty:

Transmitted herewith are the results of analyses on four samples submitted to our laboratory on January 16, 1985.

		_			
		<u>Well #1</u>	Well #2	Well #3	Well #4
Copper	mg/1	< 0.02	0.03	< 0.02	< 0.02
Nickel	mg/l	< 0.03	< 0.03	< 0.03	< 0.03
Chromium	mg/1	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/1	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	mg/l	< 0.02	0.23	< 0.02	< 0.02

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/kbd

Offices and laboratories facated in: Essex Junction. Vermont Research Triangle Park, North Carolina

#### WESTINGHOUSE GROUND WATER WELL DATA

#### Sampling Date: January 15, 1985

	•	•	-	-
20	1	,	- 1	n
	_		т.	$\nu$ .

ſ	#1	<u># 2</u>	#3	#4
Well Depth	25.75 ¹	22.50	22.75	25.8011
Water Depth Before Pump	16.01'	11.22	14.89'	18.141
Water Depth After Pump	21.14	19.75	15.12	18.41*
Depth of One Well Volume	9.741	11.28	7.86'	7.66
Depth from Pumping	5.13'	8.53'	0.23	0.271
Time Start Yump	13:40	13:50	11:30	11:25
Time of Sample	15:20	15:30	13:15	13:10
Total Time Pumped	1.50 hrs	1.50 hrs	1.75 hrs	1.75 hrs
Approximate Pump Rate	l L/min	· 1 L/min	1.5 L/min	1.5 (/min
Conductivity & Temperature	110 @22.0°C	855 @21.9°C	559 Q20.4°C	181 (322, 49)
pН	6.2	6.1	6.2	5.7





## Industrial Environmental Analysis Inc.: P.O. Box 125 Research Triangle Park, NC 27769 • 919-467-9919

Dadember 18, 1984

Mr. David Daugherty Westinghouse Electric Corporation P. O. Box 9533 Raleigh, NC 27611

Reference: .IEA Report No. 230-2

Dear Mr. Daugherty:

Transmitted herowith are the results of analyses on four samples submitted to our laboratory on December 14, 1984.

		-			
		Well #1	Well #2	Well #3	Well #4
Copper	mg/l	< 0.02	0.14	< 0.02	< 0.02
Nickel	mg/1	< 0.03	0.04	< 0.03	< 0.03
Chromium	mg/l	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/l	< 0.1	< 0.1	< 0.1	< 0.01
Cadmium	mg/l	< 0.01	0.03	< 0.01	< 0.01
Cyanide	mg/1	< 0.02	0.10	< 0.02	< 0.02
		<b></b>			

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic

Senior Chemist

JBA/kbd

#### WESTINGHOUSE CROUND WATER WHELL DATA

Sampling Date: December 14, 1984

Well I.D.

	#1	<u>#2</u>	<u>#3</u>	<u>fⁱf4</u>
Well Depth	26.00'	22.481	22.75	25,805
Water Depth Before Pump	15.45'	11.071	14.78'	18.07
Water Depth After Pump	18.44'	18.47	14.91'	18.14'
Depth of One Well Volume	10.55	11.41'	7.91'	7.73*
Depth from pumping	2.99'	7.401	0.13	0.073
Time Start Pump	9:30	12:25	11:40	9:15
Time of Sample	11:45	2:20	1:45	10:45
Total Time Pumped	2.25 hrs	1.90 hrs	2.08 hrs	1.50 hrs
Approximate Pumping Rate	l L/min	· I L/min	1.5 L/min	1.5 liter/min
Conductivity & Temperature	10.43 x 10 = 104.3 @20.7°C	7.81 x 100 = 781 @20.2°C	6.08 x 100 = 608 (20.0°C	$1.53 \times 100 = 100$
рН	5.7	6.9	6.5	5.9
•		1		01108

OCA BECEIVED

### North Carolina Administrative Code

Title 15A

Department of Environment and Natural Resources Division of Water Quality



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DAVID A. HANCE
ENVIRONMENTAL SPECIALIST II
GROUNDWATER SECTION
DIVISION OF WATER QUALITY

Subchapter 2L

Sections .0100, .0200, and .0300

Classifications and Water Quality
Standards
Applicable To The Groundwaters of North Carolina

Current Through November 20, 1998
Environmental Management Commission
Raleigh, North Carolina

- (g) Class GA Standards. Where not otherwise indicated, the standard refers to the total concentration in milligrams per liter of any constituent in a dissolved, colloidal or particulate form which is mobile in groundwater. This does not apply to sediment or other particulate matter which is preserved in a groundwater sample as a result of well construction or sampling procedures.
  - (1) acetone: 0.7
  - (2) acrylamide (propenamide): 0.00001
  - (3) arsenic: 0.05
  - (4) barium: 2.0
  - (5) benzene: 0.001
  - (6) boron: 0.32
  - (7) bromoform (tribromomethane): 0.00019
  - (8) butylbenzyl phthalate: 0.10
  - (9) cadmium: 0.005
  - (10) carbofuran: 0.036
  - (11) carbon tetrachloride: 0.0003
  - (12) chlordane:  $2.7 \times 10^{-5}$
  - (13) chloride: 250.0
  - (14) chlorobenzene: 0.05
  - (15) chloroform (trichloromethane): 0.00019
- (16) 2-chlorophenol: 0.0001
- (17) chromium: 0.05
- (18) cis-1.2-dichloroethene: 0.07
- (19) coliform organisms (total): 1 per 100 milliliters
- (20) color: 15 color units
- (21) copper: 1.0
- (22) cvanide: 0.154
- (23) 2, 4-D (2,4-dichlorophenoxy-acetic acid): 0.07
- (24) 1.2-dibromo-3-chloropropane:  $2.5 \times 10^{-5}$ )
- (25) dichlorodifluoromethane (Freon-12; Halon): 1.4
- (26) 1,1 dichloroethane=0.7.
- (27) 1,2-dichloroethane (ethylene dichloride): 0.00038
- 1,1-dichloroethylene (vinylidene chloride): 0.007
- (29) 1.2-dichloropropane: 0.00056
- .. (30) di-n-butyl (or dibutyl) phthalate (DBP): 0.7
  - (31) diethylphthalate (DEP): 5.0
  - (32) di(2-ethylhexyl) phthalate (DEHP): 0.003
  - (33) di-n-octyl phthalate: 0.14
  - (34) p-dioxane (1,4-diethylene dioxide): 0.007
  - (35) dioxin:  $2.2 \times 10^{-10}$
  - (36) dissolved solids (total): 500
  - (37) diundecyl phthalate (Santicizer 711): 0.14
  - (38) endrin: 0.002
  - (39) epichlorohydrin (1-chloro-2,3-epoxypropane): 0.00354
  - (40) ethylbenzene: 0.029
  - (41) ethylene dibromide (EDB; 1,2-dibromoethane): 4.0 x 10⁻⁷
  - (42) ethylene glycol: 7.0
  - (43) fluorene: 0.28

- (44) fluoride: 2.0
- (45) foaming agents: 0.5
- (46) gross alpha (adjusted)particle activity (excluding radium-226 and uranium): 15 pCi/l
- (47) heptachlor:  $8.0 \times 10^{-6}$
- (48) heptachlor epoxide:  $4.0 \times 10^{-6}$
- (49) heptane: 2.1
- (50) hexachlorobenzene (perchlorobenzene): 0.00002
- (51) n-hexane: 0.42
- (52) -iron: 0.3
- (53) lead: 0.015
- (54) lindane:  $2.0 \times 10^{-4}$
- (55) manganese: 0.05
- (56) mercury: 0.0011
- (57) metadichlorobenzene (1,3-dichlorobenzene): 0.62
- (58) methoxychlor: 0.035
- (59) methylene chloride (dichloromethane): 0.005
- (60) __methyl ethyl ketone (MEK; -2-butanone): 0.17
- (61) methyl tert-butyl ether (MTBE): 0.2
- (62) naphthalene: 0.021
- (63) nickel: 0.1
- (64) nitrate: (as N) 10.0-
- (65) nitrite: (as N) 1.0
- (66) orthodichlorobenzene (1,2-dichlorobenzene): 0.62
- (67) oxamyl: 0.175
- (68) paradichlorobenzene (1,4-dichlorobenzene): 0.075
- (69) pentachlorophenol: 0.0003
- (70) pH: 6.5 8.5
- (71) phenanthrene: 0.21
- (72) phenol: 0.30
- (73) radium-226 and radium-228 (combined): 5 pCi/l
- (74) selenium: 0.05
- (75) silver: 0.018
- (76) styrene (ethenylbenzene): 0.1
- (77) sulfate: 250.0
- (78) tetrachloroethylene (perchloroethylene; PCE): 0.0007
- (79) toluene (methylbenzene): 1.0
- (80) toxaphene:  $3.1 \times 10^{-5}$
- (81) 2, 4, 5,-TP (Silvex): 0.05
- (82) trans-1.2-dichloroethene: 0.07
- (83) 1,1,1-trichloroethane (methyl chloroform): 0.2
- trichloroethylene (TCE): 0.0028
- (85) trichlorofluoromethane: 2.1
- (86) vinvl chloride (chloroethylene):  $1.5 \times 10^{-5}$
- (87) xylenes (o-, m-, and p-): 0.53
- (88) zinc: 2.1
- (h) Class GSA Standards. The standards for this class shall be the same as those for Class GA except as follows:

- (1) chloride: allowable increase not to exceed 100 percent of the natural quality concentration.
- (2) total dissolved solids: 1000 mg/l.
- (i) Class GC Waters.
- (1) The concentrations of substances which, at the time of classification exceed the standards applicable to Class GA or GSA groundwaters shall not be caused to increase, nor shall the concentrations of other substances be caused to exceed the GA or GSA standards as a result of further disposal of contaminants to or beneath the surface of the land within the boundary of the area classified GC.
- (2) The concentrations of substances which, at the time of classification, exceed the standards applicable to GA or GSA groundwaters shall not be caused to migrate as a result of activities within the boundary of the GC classification, so as to violate the groundwater or surface water quality standards in adjoining waters of a different class.
- (3) Concentrations of specific substances, which exceed the established standard at the time of classification, shall be listed in Section .0300 of this Subchapter.

History Note: Statutory Authority G.S. 143-214.1; 143B-282(a)(2); Eff. June 10, 1979; Amended Eff. November 1, 1994; October 1, 1993; September 1, 1992;

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OF ENT 1087

SEINIORS

November 9, 1987

33-2178 SIDE OF LEGISLAFIVE PLAG WHITE BLOG.

Mr. Jerry Rhodes Solid and Hazardous Waste Management Branch North Carolina Department of Human Resources Division of Health Services P. O. Box 2091 Raleigh, North Carolina 27602-2091

Dear Mr. Rhodes,

Perchloroethylene which is not an extremely hazardous substance was released during transfer from a delivery vehicle into a 3,000 gallon bulk storage tank at:

Westinghouse Electric Corporation P. O. Box 9533 Raleigh, North Carolina 27611

The contacts at Westinghouse are Richard Walters, telephone (919) 834-5271, extension #225 and Mary Fox, telephone (919) 834-5271, extension #142..

The National Response Center and the State Emergency Response Division was notified of the spill.

No injuries were sustained. When thee release was discovered, a bucket was placed under the overflow pipe to contain the material. Volume in the tank was then reduced by approximately .80 gallons by draining into the degreaser holding tanks. stopped the overflow. Heavily saturated soil was removed in a 5 x 10' area to a depth of 1 1/2 - 2' and was placed in drums. The hole was then covered with plywood and a 25 x 25' area was covered with plastic to protect the area from the elements.

No injuries were sustained. Please see the attached MSDS regarding acute or chronic health risks.

Investigation is ongoing to determine actual volume of material lost. Ashland Chemical has yet to notify Westinghouse of the amount of material delivered. Fifteen hundred (1500) gallons were ordered but Ashland delivered an amount in excess of that number. A delivery of 1500 gallons would not have resulted in the overlow.

Bids are now being reviewed for the cleanup and a contractor selected expeditiously and assigned the attached remedial plan.

Sincerely,

Richard Walters Purchasing Manager

#### REMEDIATION - PERCHLOROETHYLENE SPILL

#### WESTINGHOUSE - RALEIGH, NORTH CAROLINA

- TASK I Drain and clean tank. Cleaning to be done with high pressure (2500 psi) waher. Any sludge will be removed. Tank to be inspected for corrosion.
- TASK II Using hollowstem truck, mount auger, and splitspoon samples, take multiple (4-10) soil samples for determination of any vertical or horizontal contamination.
- TASK III Mobilize excavation and transport equipment for removal of contaminated soil. Recommended excavation limit to background air using a PID. Excavated soil to be transported as hazardous waste to GSX, Pinewood, SC, a chemical secure landfill.
- TASK IV After excavation, remaining surfaces to be samples and analyzed for perchloroethylene.
- TASK V When site is approved as "clean", excavated area will be backfilled and graded. Backfill to be clean and compacted to 90% to 95% field density. Backfill to be placed in 6" lifts and compacted to prevent settling in the event a tank pad is to be replaced. Shoring of excavation may be necessary to execute field compaction test.
- TASK VI Option for further use for perchloroethylene:
  - 1. Use of drums to replace the tank.
  - Installation of a concrete containment system, reinstallation of the tank, and procedural changes governing truck offloading including field inspection by Westinghouse before, during and after delivery.



Westinghouse Electric Corporation Measurements and Control Division

Box 9533 Raleigh North Carolina 27611 1919: 834 5271

January 6, 1988

Mr. Larry Perry
Solid and Hazardous Waste Management Branch
North Carolina Department of Human Resources
Division of Health Services
P. G. Box 2091
Raleigh, North Carolina 27602-2091

Dear Larry,

Remediation of the perchloroethylene solvent spill has been completed per the work statement described in our 11/9/87 letter to your department. The excavated site was backfilled after inspection by the State. The area in which the contaminated material was stock piled was also inspected by the State after the material had been removed to the secure landfill in Pinewood, SC. The clean up was found to be satisfactory.

Please call me if you have any questions.

Sincerely,

hong fox

Environmental Control Officer

CC: Mr. Jerry Rhodes

A: EWMFLTR1.DOC

## DEPARTMENT OF ENVIRONMENT, HEALTH and NATURAL RESOURCES DIVISION OF SOLID WASTE MANAGEMENT HAZARDOUS WASTE SECTION ACTIVITY REPORT

Subject: ABB Power T & D Co., Inc.

NCD003195963

Location: Wake

Date: 29 Apr 1996

Address: 2728 Capital Blvd. Time spent: 3.0

City: Raleigh

State: NC Zip: 27604

By Whom: Mike Williford

Persons contacted: Tom Parker

Reason for visit: To conduct a closure inspection at the

ABB facility formerly located on Capital Blvd.

Copies to: Larry Perry

#### REPORT:

ABB Power T & D Company, Raleigh: To conduct a generator closure——inspection. A records review and walk-thru at the former ABB site were conducted and it appears that closure has been performed in accordance with 40 CFR 265.111 & 265.114.

Activity Type: C	heck Most	Appropriate
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1.	Complaint	
2.	Emergency Responce	
3.	Compliance Asst	
4.	Remedial Action	
5.	Presentation	
	Training	~ <del>~~</del>
7.	Meeting	<del></del>
	Other	v
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Region IV CHEE Form - Side A	DATA ENTRY PER Submitted by:	RSONNEL Date:
BPA ID: NCD 0 3 9 3-9 63	Entered by:	Dates
Facility Name: ABB Power 7+3	Company tre C	<del></del>
EVALUATION DATA: New: Change		( t Required)
Agency: Mo., Day Year.	्रहें म	- Control Number - Data Entry Personnel
Date: 02/18/94	CRIT.	
Person: 02Z BRANCH 07R	EASON	
Coverage Areas: (E: Evaluated NE:		HA: Not Applie Dibel.)
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GER TMR TOR	BCP	
GUB TRIB	II DGS T	DHC DTR
GOR USED OIL		DOR DOT
GRR GSC TFO	COMPLIANCE SCHOOL	DULE (TSD, GEN, TRANS.)
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### RCRA INSPECTION REPORT

Facility Name: ABB Your T+D Congray, INC. 1) ID Number: NC D 003/95 963 Type of facility: Generator Ownership: Contact: Tommy Parker Phone number (919) 83 4-527/ Facility location (address): 2728 Cap. Int Blub. City, state, zip: Rale 1/2, N.C. 27604 Survey Participants: Tommy Parker Michael Will. Fred Bolly Watson 2) Date of Inspection: 2/18/94 Purpose of Inspection: Essare conflower will 40CFR Parts 261, 262265, +268. 3) 4) Facility Description: ASS maxumeters want how meters. Processes: Waste Perchlorathy lene fromdequery operation - Foolpos? <u>5)</u> Waste water treatment sludge from sleets plats in genation - FOOB

Flammable spent solvents from punting process; ele may of

Type Waste:

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Type Waste: Physhote studge from trat cleaning of Econt Part System-2002 Waste General 2000 from elemning + lubricating of parts. 1=002 Transporters: M+M Chemical Co. ALD 0705-13767 Dart Truckin Co. OAD 009865825 Cavironmental transfer Cop. NJS 99/29/584 M+M Chenreal + Equipment 6, Act. Act 0705-13767 TSD's: Crowstern Dec. MI 8098811992 NCD 486146338 Accumulation areas: Boilen Room Tool Room Egot. N Dept. K Was to water treatment Plant Storage areas: Wash Water Treatment Plant Drum Accumulation cage unthwestside of Ascility

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Facility Name: ABB Para 74) Capany Fac ID #: 10003195963

6) Waste Minimization: Source Reduction: 3p:1/+ Leat Preventes

7) Site Deficiencies

FACILY IN conflictions.

8) Recommendations:

Signed:

Inspector/Reviewer

Date

Facility Contact

#### **MEMORANDUM**

TO:

File

FROM:

S. Franch, Environmental Chemist,

NC Superfund

DATE:

May 13, 1998

SITE:

Westinghouse Electric Meter and Light Division

NCD 003 195 963 (Raleigh, Wake County)

This site currently supports the Parker-Lincoln Building that houses DENR divisions. The surface impoundment and landfill were closed under the RCRA program in 1986. Please see the Superfund State File regarding a PCE spill clean-up in 1990. This site had been deferred to the RCRA program in the mid 1980s since it was an active facility.